



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

REGION 6	SITE NUMBER (to be assigned by Hq) OKD980750319
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GENERAL INSTRUCTIONS: Complete Sections I and III through XV of this form as completely as possible. Then use the information on this form to develop a Tentative Disposition (Section II). File this form in its entirety in the regional Hazardous Waste Log File. Be sure to include all appropriate Supplemental Reports in the file. Submit a copy of the forms to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME Air Center, Inc.		B. STREET (or other identifier) Hwy. 8, Wiley Post Airport, 7300 N.W. 63rd	
C. CITY Oklahoma City	D. STATE OK	E. ZIP CODE 73131	F. COUNTY NAME Oklahoma
G. SITE OPERATOR INFORMATION			
1. NAME Mr. Lou Dominguez, Mgr. Airport Planning and Development		2. TELEPHONE NUMBER (405) 681-5311	
3. STREET P.O. Box 5993	4. CITY Oklahoma City	5. STATE OK	6. ZIP CODE 73159
H. REALTY OWNER INFORMATION (if different from operator of site)			
1. NAME City of Oklahoma City		2. TELEPHONE NUMBER (405) 231-2011	
3. CITY Oklahoma City	4. STATE OK	5. ZIP CODE 73102	
I. SITE DESCRIPTION Former aircraft renovation and paint stripping facility			
J. TYPE OF OWNERSHIP			
<input type="checkbox"/> 1. FEDERAL <input type="checkbox"/> 2. STATE <input type="checkbox"/> 3. COUNTY <input checked="" type="checkbox"/> 4. MUNICIPAL <input type="checkbox"/> 5. PRIVATE			

II. TENTATIVE DISPOSITION (complete this section last)

A. ESTIMATE DATE OF TENTATIVE DISPOSITION (mo., day, & yr.)	B. APPARENT SERIOUSNESS OF PROBLEM
	<input type="checkbox"/> 1. HIGH <input checked="" type="checkbox"/> 2. MEDIUM <input type="checkbox"/> 3. LOW <input type="checkbox"/> 4. NONE
C. PREPARER INFORMATION	
1. NAME Ravinder Joseph, ICF Technology/FIT	2. TELEPHONE NUMBER (214) 744-1641 3. DATE (mo., day, & yr.) July 29, 1987

III. INSPECTION INFORMATION

A. PRINCIPAL INSPECTOR INFORMATION	
1. NAME Debra Pandak	2. TITLE FIT Environmental Scientist
3. ORGANIZATION ICF Technology, 1509 Main Street, Suite 900, Dallas, Texas 75201	4. TELEPHONE NO. (area code & no.) (214) 744-1641

B. INSPECTION PARTICIPANTS		
1. NAME	2. ORGANIZATION	3. TELEPHONE NO.
Ravinder Joseph	ICF Technology, Dallas	(214) 744-1641
Heather Schijf	ICF Technology, Dallas	(214) 744-1641
Tom Rountree	ICF Technology, Dallas	(214) 744-1641

C. SITE REPRESENTATIVES INTERVIEWED (corporate officials, workers, residents)		
1. NAME	2. TITLE & TELEPHONE NO.	3. ADDRESS
Scott A. Thompson	Environmental Specialist (405) 271-2702	Oklahoma State Dept. of Health, P.O. Box 53551, 1000 N.E. Tenth, Oklahoma City, OK 73152
John N. Ice	Environmental Health Spec. (405) 271-7063	Oklahoma State Department of Health, Industrial Waste Division

III. INSPECTION INFORMATION (continued)

D. GENERATOR INFORMATION (sources of waste)			
1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE GENERATED
Air Center, Inc.	N/A	Hanger 8, Wiley Post Airport	Paints, Solvents,
(Out of Business)		7300 N.W. 63rd, Oklahoma City, OK 73131	Paint Stripping,
			Waste Water

E. TRANSPORTER/HAULER INFORMATION			
1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE TRANSPORTED
N/A			

F. IF WASTE IS PROCESSED ON SITE AND ALSO SHIPPED TO OTHER SITES, IDENTIFY OFF-SITE FACILITIES USED FOR DISPOSAL.		
1. NAME	2. TELEPHONE NO.	3. ADDRESS
N/A		

G. DATE OF INSPECTION (mo., day, & yr.)	H. TIME OF INSPECTION	I. ACCESS GAINED BY: (credentials must be shown in all cases)
7/23/87	1200-1400 hours	<input checked="" type="checkbox"/> 1. PERMISSION <input type="checkbox"/> 2. WARRANT

J. WEATHER (describe)
Warm and sunny. Approximately 92° F. Winds from the SW at 10-15 mph

IV. SAMPLING INFORMATION

A. Mark 'X' for the types of samples taken and indicate where they have been sent e.g., regional lab, other EPA lab, contractor, etc. and estimate when the results will be available.

1. SAMPLE TYPE	2. SAMPLE TAKEN (mark 'X')	3. SAMPLE SENT TO:	4. DATE RESULTS AVAILABLE
a. GROUNDWATER			
b. SURFACE WATER			
c. WASTE			
d. AIR			
e. RUNOFF			
f. SPILL			
g. SOIL			
h. VEGETATION			
i. OTHER (specify)	x	No samples were taken during this inspection	

B. FIELD MEASUREMENTS TAKEN (e.g., radioactivity, explosivity, PH, etc.).

1. TYPE	2. LOCATION OF MEASUREMENTS	3. RESULTS
HNU	Continuous monitoring at site	No readings above background
RAM-4	Continuous monitoring at site	No readings above background
Metal Detector recycled paper	Area between drainage ditch and hangers	Detected metal close to concrete drainage pipe and to the east side of paint stripping hangers

IV. SAMPLING INFORMATION (continued)

G. PHOTOS	
1. TYPE OF PHOTOS	2. PHOTOS IN CUSTODY OF:
<input checked="" type="checkbox"/> a. GROUND <input type="checkbox"/> b. AERIAL	EPA Region 6 (see attached)
D. SITE MAPPED?	
<input checked="" type="checkbox"/> YES. SPECIFY LOCATION OF MAPS: Location map and site sketch attached	
E. COORDINATES	
1. LATITUDE (deg.-min.-sec.)	2. LONGITUDE (deg.-min.-sec.)
35° 32' 17" N	97° 38' 30" W

V. SITE INFORMATION

A. SITE STATUS	
<input type="checkbox"/> 1. ACTIVE (Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if infrequently.)	<input checked="" type="checkbox"/> 2. INACTIVE (Those sites which no longer receive wastes.)
<input type="checkbox"/> 3. OTHER (specify): _____ (Those sites that include such incidents like "midnight dumping" where no regular or continuing use of the site for waste disposal has occurred.)	
B. IS GENERATOR ON SITE?	
<input type="checkbox"/> 1. NO <input checked="" type="checkbox"/> 2. YES (specify generator's four-digit SIC Code): <u>3724</u>	
C. AREA OF SITE (in acres)	D. ARE THERE BUILDINGS ON THE SITE?
11.5 (estimated)	<input type="checkbox"/> 1. NO <input checked="" type="checkbox"/> 2. YES (specify): There are three hangers, an above ground water tank and a shed adjoining the tank

VI. CHARACTERIZATION OF SITE ACTIVITY

State the major site activity(ies) and details relating to each activity by marking 'X' in the appropriate boxes.

A. TRANSPORTER	X'	B. STORER	X'	C. TREATER	X'	D. DISPOSER
1. RAIL		1. PILE		1. FILTRATION		1. LANDFILL
2. SHIP		2. SURFACE IMPOUNDMENT		2. INCINERATION		2. LANDFARM
3. BARGE		3. DRUMS		3. VOLUME REDUCTION		3. OPEN DUMP
4. TRUCK		4. TANK, ABOVE GROUND		4. RECYCLING/RECOVERY		4. SURFACE IMPOUNDMENT
5. PIPELINE	<input checked="" type="checkbox"/>	5. TANK, BELOW GROUND		5. CHEM./PHYS./TREATMENT		5. MIDNIGHT DUMPING
6. OTHER (specify):		6. OTHER (specify):		6. BIOLOGICAL TREATMENT		6. INCINERATION
		Tank covers discovered on site (photos 19 and 20) point to the presence of underground storage tanks. (See attached ROC to Wayne O'Berg.)		7. WASTE OIL REPROCESSING		7. UNDERGROUND INJECTION
				8. SOLVENT RECOVERY	<input checked="" type="checkbox"/>	8. OTHER (specify):
				9. OTHER (specify):		A lagoon which has since been filled up is presumed to be on site. Drainage ditch.

E. SUPPLEMENTAL REPORTS: If the site falls within any of the categories listed below, Supplemental Reports must be completed. Indicate which Supplemental Reports you have filled out and attached to this for..

<input checked="" type="checkbox"/> 1. STORAGE	<input type="checkbox"/> 2. INCINERATION	<input type="checkbox"/> 3. LANDFILL	<input type="checkbox"/> 4. SURFACE IMPOUNDMENT	<input type="checkbox"/> 5. DEEP WELL
<input type="checkbox"/> 6. CHEM/BIO/PHYS TREATMENT	<input type="checkbox"/> 7. LANDFARM	<input type="checkbox"/> 8. OPEN DUMP	<input type="checkbox"/> 9. TRANSPORTER	<input type="checkbox"/> 10. RECYCLOR/RECLAIMER

VII. WASTE RELATED INFORMATION

A. WASTE TYPE	
<input checked="" type="checkbox"/> 1. LIQUID	<input type="checkbox"/> 2. SOLID <input checked="" type="checkbox"/> 3. SLUDGE <input type="checkbox"/> 4. GAS
B. WASTE CHARACTERISTICS	
<input type="checkbox"/> 1. CORROSIVE	<input type="checkbox"/> 2. IGNITABLE
<input checked="" type="checkbox"/> 5. TOXIC	<input type="checkbox"/> 6. REACTIVE
<input type="checkbox"/> 3. RADIOACTIVE	<input type="checkbox"/> 4. HIGHLY VOLATILE
<input type="checkbox"/> 7. INERT	<input type="checkbox"/> 8. FLAMMABLE
<input type="checkbox"/> 9. OTHER (specify):	
C. WASTE CATEGORIES	
1. Are records of wastes available? Specify items such as manifests, inventories, etc. below.	
No	

VII. WA. RELATED INFORMATION (continued)

2. Estimate the amount (specify unit of measure) of waste by category; mark 'X' to indicate which wastes are present.

a. SLUDGE	b. OIL	c. SOLVENTS	d. CHEMICALS	e. SOLIDS	f. OTHER
AMOUNT 500-700 (est)	AMOUNT Unknown	AMOUNT Unknown	AMOUNT 200 (est)	AMOUNT None	AMOUNT None
UNIT OF MEASURE gallons/year	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE gallons/week	UNIT OF MEASURE	UNIT OF MEASURE
X (1) PAINT, PIGMENTS	X (1) OILY WASTES	X (1) HALOGENATED SOLVENTS	X (1) ACIDS	X (1) FLYASH	X (1) LABORATORY, PHARMACEUT.
(2) METALS SLUDGES	(2) OTHER(specify):	(2) NON-HALOGNTD. SOLVENTS	(2) PICKLING LIQUORS	(2) ASBESTOS	(2) HOSPITAL
(3) POTW		(3) OTHER(specify):	(3) CAUSTICS	(3) MILLING/MINE TAILINGS	(3) RADIOACTIVE
(4) ALUMINUM SLUDGE			X (4) PESTICIDES	(4) FERROUS SMELTING WASTES	(4) MUNICIPAL
X (5) OTHER(specify): paint stripping sludge			(5) DYES/INKS	(5) NON-FERROUS SMLTG. WASTES	(5) OTHER(specify):
			(6) CYANIDE	(6) OTHER(specify):	
			X (7) PHENOLS		
			(8) HALOGENS		
			(9) PCB		
			(10) METALS		
			X (11) OTHER(specify): paint remover		

3. LIST SUBSTANCES OF GREATEST CONCERN WHICH ARE ON THE SITE (place in descending order of hazard)

1. SUBSTANCE	2. FORM (mark 'X')			3. TOXICITY (mark 'X')				4. CAS NUMBER	5. AMOUNT	6. UNIT
	a. SOLID	b. LIQ.	c. VAPOR	a. HIGH	b. MED.	c. LOW	d. NONE			
Chromium	X	X						7440-47-5	Unknown	
Lead	X	X						7439-92-1	Unknown	
Cadmium	X							7440-43-9	Unknown	

VIII. HAZARD DESCRIPTION

FIELD EVALUATION HAZARD DESCRIPTION: Place an 'X' in the box to indicate that the listed hazard exists. Describe the hazard in the space provided.

☒ A. HUMAN HEALTH HAZARDS

Past sampling results show chromium and lead were found in levels above background in Woodlake pond sediments. This is a potential health hazard as children were observed playing in mud at the edges of the pond (photo #8) and a resident was seen fishing.

VIII. HAZARD DESCRIPTION (continued)

☐ B. NON-WORKER INJURY/EXPOSURE☐ C. WORKER INJURY/EXPOSURE☐ D. CONTAMINATION OF WATER SUPPLY☒ E. CONTAMINATION OF FOOD CHAIN

Possible contamination of fish in Woodlake pond. Recon team documented fishing in this pond (photo #11). There had been a complaint of bad tasting fish from a resident some years back.

☐ F. CONTAMINATION OF GROUND WATER☒ G. CONTAMINATION OF SURFACE WATER

The Oklahoma State Department of Health found significant concentrations of heavy metals (lead and chromium) in the sediments of Woodlake pond and along the drainage path leading to the pond. No visual evidence of this was observed during the FIT recon.

VIII. HAZARD DESCRIPTION (continued)

☒ H. DAMAGE TO FLORA/FAUNA

Circular patches of dead vegetation approximately two feet in diameter were found to the east of the water tank. Patches of lighter vegetation were also noticed adjoining the east side of the hangers.

☐ I. FISH KILL☐ J. CONTAMINATION OF AIR☐ K. NOTICEABLE ODORS☐ L. CONTAMINATION OF SOIL☐ M. PROPERTY DAMAGE

VIII. HAZARD DESCRIPTION (continued)

☐ N. FIRE OR EXPLOSION☐ O. SPILLS/LEAKING CONTAINERS/RUNOFF/STANDING LIQUID☐ P. SEWER, STORM DRAIN PROBLEMS☐ Q. EROSION PROBLEMS☒ R. INADEQUATE SECURITY

Air Center has been out of business since March 1984. The facility is on airport property, which is completely fenced. The site has a locked gate in front approximately five feet tall. Employees of the airport could access the property easily.

☐ S. INCOMPATIBLE WASTES

VIII. HAZARD DESCRIPTION (continued)

☐ T. MIDNIGHT DUMPING

☒ U. OTHER (specify):

Air Center generated waste water from paint stripping operations of airplanes and the waste water was supposedly stored in two 500 gallon underground storage tanks and then pumped out. However it was noticed during an inspection by the Oklahoma Water Resources Board that the liquid was allowed to drain into an unlined lagoon. The lagoon was later covered up and the waste water was allowed to drain directly into a drainage ditch which went under Rockwell Avenue and led to a residential pond (Woodlake Pond). The facility went out of business about March 1984.

The Oklahoma State Department of Health took samples along the drainage pathway from the residential pond. The samples revealed significant concentrations of lead and chromium in the sediments. Some contaminants, like cadmium, and trace amounts of arsenic were also found. Phenols were also detected in water and sediments (186,000 mg/l in water and 4,820 mg/kg in sediment) in June 1984. No organics were detected in four samples tested by the Oklahoma State Board of Health in April 1986.

On July 23, 1987 FIT conducted a site recon to support the HRS package completed on this site. The objectives of the site recon were to ascertain the migration path of contaminants along the drainage path and to do a residential well survey. Other objectives of the recon were to determine the existence of two NOS 500-gallon underground storage tanks and the lagoon on site. The development of a sampling plan to determine the presence and spread of contaminants was also a major objective.

(Continued on Attachment A)

IX. POPULATION DIRECTLY AFFECTED BY SITE

A. LOCATION OF POPULATION	B. APPROX. NO. OF PEOPLE AFFECTED	C. APPROX. NO. OF PEOPLE AFFECTED WITHIN UNIT AREA	D. APPROX. NO. OF BUILDINGS AFFECTED	E. DISTANCE TO SITE (specify units)
1. IN RESIDENTIAL AREAS	760	760	200	½ mile
2. IN COMMERCIAL OR INDUSTRIAL AREAS	500	500	20	1 mile
3. IN PUBLICLY TRAVELLED AREAS	1,000/day	1,000/day	10	¼ mile
4. PUBLIC USE AREAS (parks, schools, etc.)	100	100	1	¼ mile

X. WATER AND HYDROLOGICAL DATA

A. DEPTH TO GROUNDWATER (specify unit) 40-45' (est)	B. DIRECTION OF FLOW SW	C. GROUNDWATER USE IN VICINITY Drinking Water/Irrigation
D. POTENTIAL YIELD OF AQUIFER Unknown	E. DISTANCE TO DRINKING WATER SUPPLY (specify unit of measure) 3/4 mile	F. DIRECTION TO DRINKING WATER SUPPLY East

G. TYPE OF DRINKING WATER SUPPLY

- ☐ 1. NON-COMMUNITY < 15 CONNECTIONS ☒ 2. COMMUNITY (specify town): Oklahoma City & Warr Acres-Surface Water (Lake Hefner)
- ☐ 3. SURFACE WATER ☒ 4. WELL City of Bethany - ground water

Continued From Page 8

X. WATER AND HYDROLOGICAL DATA (continued)

LIST ALL DRINKING WATER WELLS WITHIN A 1/4 MILE RADIUS OF SITE

1. WELL	2. DEPTH (specify unit)	3. LOCATION (proximity to population/buildings)	4. NON-COM- MUNITY (mark 'X')	5. COMMUN- ITY (mark 'X')
		See Attachment A		

RECEIVING WATER

1. NAME

Woodlake Pond

☐ 2. SEWERS☐ 3. STREAMS/RIVERS☒ 4. LAKES/RESERVOIRS☐ 5. OTHER (specify):**6. SPECIFY USE AND CLASSIFICATION OF RECEIVING WATERS**

Woodlake Pond is used mainly for recreational use and for fishing. Drainage path leads from this into a series of lakes across Bluff Creek Canal and possibly into Silver Lake and Ski Island, also used for recreational purposes.

XI. SOIL AND VEGETATION DATA

LOCATION OF SITE IS IN:

☐ A. KNOWN FAULT ZONE☐ B. KARST ZONE☐ C. 100 YEAR FLOOD PLAIN☐ D. WETLAND☐ E. A REGULATED FLOODWAY☐ F. CRITICAL HABITAT☒ G. RECHARGE ZONE OR SOLE SOURCE AQUIFER**XII. TYPE OF GEOLOGICAL MATERIAL OBSERVED**

Mark 'X' to indicate the type(s) of geological material observed and specify where necessary, the component parts.

'X'	A. COVER BURDEN	'X'	B. BEDROCK (specify below)	'X'	C. OTHER (specify below)
X	1. SAND	x	Red shale, sandstone	x	unconsolidated interfingering lenses of sand, silt, gravel and clay
X	2. CLAY				
	3. GRAVEL				

XIII. SOIL PERMEABILITY☐ A. UNKNOWN☐ B. VERY HIGH (100,000 to 1000 cm/sec.)☐ C. HIGH (1000 to 10 cm/sec.)☐ D. MODERATE (10 to .1 cm/sec.)☒ E. LOW (.1 to .001 cm/sec.)☒ F. VERY LOW (.001 to .00001 cm/sec.)**G. RECHARGE AREA**☒ 1. YES☐ 2. NO

3. COMMENTS: possible recharge of alluvium and bedrock aquifers

H. DISCHARGE AREA☐ 1. YES☒ 2. NO

3. COMMENTS:

I. SLOPE

1. ESTIMATE % OF SLOPE

1-3%

2. SPECIFY DIRECTION OF SLOPE, CONDITION OF SLOPE, ETC.

East and Northeast

J. OTHER GEOLOGICAL DATA

One time discharge Chromic Acid
200 ppm
RCRA Cleanup in 83-84

GAMS samples residents' al Pond

XV. PAST REGULATORY OR ENFORCEMENT ACTIONS

Continued From Front

XIV. PERMIT INFORMATION

RECORD OF
COMMUNICATION

(405) 787-2463

☒ none Call ☐ Discussion ☐ Field Trip
☐ Conference ☐ Other (Specify)

(Record of Item Checked Above)

TO:

Wayne O'Berg
Former Director of Operations
for Air Center, Inc.
Oklahoma City

FROM:

Heather Schijf, ICF Technology

DATE

9/8/87

TIME

8:30 a.m.

SUBJECT

Location of Storage Tanks on Air Center Property

SUMMARY OF COMMUNICATION

There were two 500-gallon storage tanks located on the property at the time of the closure of the Air Center, Inc. in 1985. The tanks are located along the outside of the east wall of the northend of hanger 8B. The storage tanks came out from the building (in an easterly direction) for approximately 15 to 20 feet. The depth of the tanks is approximately six to eight feet. The tanks were used to hold stripped sludge, and when full the sludge was pumped into a pumper truck and transported to a disposer in Kansas City. The waste was manifested. At closure, the tanks were pumped and empty. The airport repumped the tanks again. To his knowledge, the tanks are empty of stripper sludge.

Two drainage ditches with a series of screens (sumps) were located in the floor of hanger 8B. The stripped material would come off the planes and go into the drainage ditch, then the settled solids would go into the holding tanks and the liquid (mainly water) would leave the building through a concrete drainage pipe. The liquid would be held in three holding ponds. The ponds worked on an overflow method. When the first one was full, it would overflow into the next pond located just below it (it was terraced). The second pond was located in the trees. By the time the liquid reached the third pond, the liquid was clear and aquatic life was present. The liquid was treated naturally - no chemicals were used. The settling ponds were unlined. The first pond was approximately 100 feet by 100 feet. The State Health Department did sampling in 1984 and gave the Air Center a clean bill of health. In 1984, the State Health Department came in on a report that the Air Center was discharging phenols. According to Mr. O'Berg, the Air Center did not use phenols. They used a brand called Elderado. At one time, they were using a stripper with low levels of chromium but switched and used a stripper with no chromium. The sampling by the State went on for approximately four months and a clean bill of health was given.

/ Heather Schijf 9-8-87

INFORMATION COPIES

TO:

STORAGE FACILITIES SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain
as Necessary.

1. STORAGE AREA HAS CONTINUOUS IMPERVIOUS BASE

☐ YES ☐ NO Unknown

2. STORAGE AREA HAS A CONFINEMENT STRUCTURE

☐ YES ☐ NO Unknown

3. EVIDENCE OF LEAKAGE/OVERFLOW (If "Yes", document where and how much runoff is overflowing or leaking from containment)

☐ YES ☐ NO Unknown

4. ESTIMATE TYPE AND NUMBER OF BARRELS/CONTAINERS

None

5. GLASS OR PLASTIC STORAGE CONTAINERS USED

☐ YES ☒ NO

6. ESTIMATE NUMBER AND CAPACITY OF STORAGE TANKS

Two NOS 500-gallon underground storage tanks according to Air Center permit application in February 1984. Visual evidence of tanks seen in attached photos (photo #9, photo #20).

7. NOTE LABELING ON CONTAINERS

None. Tanks used to store paint stripping sludge.

8. EVIDENCE OF LEAKAGE CORROSION OR BULGING OF BARRELS/CONTAINERS/STORAGE TANKS (If "Yes", document evidence. Describe location and extent of damage. Take PHOTOGRAPHS)

☐ YES ☐ NO

Unknown

9. DIRECT VENTING OF STORAGE TANKS

☐ YES ☒ NO

10. CONTAINERS HOLDING INCOMPATIBLE SUBSTANCES (If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)

☐ YES ☐ NO

Unknown

11. INCOMPATIBLE SUBSTANCES STORED IN CLOSE PROXIMITY (If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)

☐ YES ☐ NO

Unknown

12. ADEQUATE CONTAINER WASHING AND REUSE PRACTICES

☐ YES ☒ NO

13. ADEQUATE PRACTICES FOR DISPOSAL OF EMPTY STORAGE CONTAINERS

☐ YES ☒ NO

RESIDENTIAL WELL SAMPLING INFORMATION

1. Name, address and phone number of resident (include county and zip code)

(b) (6)

2. Date well was dug Unknown

3. Depth of well 110 feet

4. Depth to static water 30 feet

5. Is the well cased? Yes x No Unknown

If so, to what depth? 80 feet

What type of casing is used? Steel

6. Is well screened? Yes No Unknown

Foot Valve

7. How much is the well pumped? (Only for residential use of for use in watering livestock?) drinking, irrigation, livestock

8. Any other pertinent information? No treatment

RESIDENTIAL WELL SAMPLING INFORMATION

1. Name, address and phone number of resident (include county and zip code)

(b) (6) _____

2. Date well was dug Unknown

3. Depth of well Unknown

4. Depth to static water Unknown

5. Is the well cased? Yes _____ No _____ Unknown x

If so, to what depth? _____

What type of casing is used? _____

6. Is well screened? Yes _____ No _____ Unknown x

7. How much is the well pumped? (Only for residential use or for use in watering livestock?) possibly livestock

8. Any other pertinent information? _____

RESIDENTIAL WELL SAMPLING INFORMATION

1. Name, address and phone number of resident (include county and zip code)

(b) (6)

2. Date well was dug Unknown

3. Depth of well Unknown

4. Depth to static water Unknown

5. Is the well cased? Yes _____ No _____ Unknown x

If so, to what deptn? _____

What type of casing is used? _____

6. Is well screened? Yes _____ No _____ Unknown x

7. How much is the well pumped? (Only for residential use or for use in watering livestock?) unknown

8. Any other pertinent information? Water is used for gardening; drinking water comes from the city.

RESIDENTIAL WELL SAMPLING INFORMATION

1. Name, address and phone number of resident (include county and zip code)

(b) (6)

2. Date well was dug _____ Unknown

3. Depth of well Unknown

4. Depth to static water Unknown

5. Is the well cased? Yes _____ No _____ Unknown x

If so, to what deptn?

What type of casing is used? _____

6. Is well screened? Yes ☐ No ☒ Unknown ☐

7. How much is the well pumped? (Only for residential use or for use in watering livestock?) unknown

8. Any other pertinent information? Water is used for gardening; drinking water comes from the city.

RESIDENTIAL WELL SAMPLING INFORMATION

1. Name, address and phone number of resident (include county and zip code)

(b) (6)

2. Date well was dug Unknown

3. Depth of well Unknown

4. Depth to static water Unknown

5. Is the well cased? Yes _____ No _____ Unknown x

If so, to what depth? _____

What type of casing is used?

6. Is well screened? Yes _____ No _____ Unknown x

7. How much is the well pumped? (Only for residential use or for use in watering livestock?) No use known.

8. Any other pertinent information? Lady in hospital - information from owners

at

(b) (6)

RESIDENTIAL WELL SAMPLING INFORMATION

1. Name, address and phone number of resident (include county and zip code)

(b) (6)

2. Date well was dug 1972

3. Depth of well 55 Feet

4. Depth to static water Unknown

5. Is the well cased? Yes x No Unknown

If so, to what depth? Unknown

What type of casing is used? Unknown

6. Is well screened? Yes No Unknown x

7. How much is the well pumped? (Only for residential use of for use in watering livestock?) Gardening

8. Any other pertinent information? No septic tank. Well tested and quality good, according to owner.

RESIDENTIAL WELL SAMPLING INFORMATION

1. Name, address and phone number of resident (include county and zip code)

(b) (6)

2. Date well was dug 1977

3. Depth of well Unknown

4. Depth to static water Unknown

5. Is the well cased? Yes No Unknown x

If so, to what depth? Unknown

What type of casing is used? Unknown

6. Is well screened? Yes No Unknown x

7. How much is the well pumped? (Only for residential use or for use in watering livestock?) Garden, lawn

8. Any other pertinent information? City of Bethany - drinking. Husband may know more.

RESIDENTIAL WELL SAMPLING INFORMATION

1. Name, address and phone number of resident (include county and zip code)

(b) (6)

2. Date well was dug _____ Unknown

3. Depth of well Unknown

4. Depth to static water Unknown

5. Is the well cased? Yes _____ No _____ Unknown x

If so, to what depth? _____

What type of casing is used?

6. Is well screened? Yes _____ No _____ Unknown x

7. How much is the well pumped? (Only for residential use or for use in watering livestock?) Unknown

8. Any other pertinent information? Used well in past. City water now.

(Dog)

RESIDENTIAL WELL SAMPLING INFORMATION

1. Name, address and phone number of resident (include county and zip code)

(b) (6)

2. Date well was dug 1948

3. Depth of well Approximately 80 feet.

4. Depth to static water Can overflow

5. Is the well cased? Yes x No Unknown

If so, to what depth?

What type of casing is used? PVC

6. Is well screened? Yes No Unknown x

7. How much is the well pumped? (Only for residential use of for use in watering livestock?) Lawn and garden

8. Any other pertinent information? Well - lawn; city water - drinking;
water softening service - City of Bethany; hard water - 90 grains. Gave business
card.

- (b) (6)

Unknown

Unknown :

Unknown

If so, to what depth? _____

No Unknown X

watering livestock, _____

RESIDENTIAL WELL SAMPLING INFORMATION

1. Name, address and phone number of resident (include county and zip code)

(b) (6)

2. Date well was dug _____

3. Depth of well _____ 75 feet

4. Depth to static water _____ About 20 feet

5. Is the well cased? Yes ☒ No _____ Unknown _____

If so, to what depth? _____

What type of casing is used? _____ galvanized casing

6. Is well screened? Yes _____ No _____ Unknown ☒

7. How much is the well pumped? (Only for residential use or for use in watering livestock?) _____ Household

8. Any other pertinent information? _____ $\frac{1}{2}$ horse power submersible pump. Approximately three years ago put in a water softener - treat with water softener.

RESIDENTIAL WELL SAMPLING INFORMATION

1. Name, address and phone number of resident (include county and zip code)

(b) (6)

2. Date well was dug 1945

3. Depth of well 50 feet originally; 1982-pulled out pipe and installed a submersible pump from 20 feet.

4. Depth to static water 20 feet - as of 1982

5. Is the well cased? Yes No x Unknown
If so, to what depth?
What type of casing is used? No casing - submersible pump from 20 feet

6. Is well screened? Yes No x Unknown

7. How much is the well pumped? (Only for residential use or for use in watering livestock?) Household

8. Any other pertinent information? Water quality testing - up to 40.
Clorox every now and then.

RESIDENTIAL WELL SAMPLING INFORMATION

1. Name, address and phone number of resident (include county and zip code)

(b) (6)

2. Date well was dug 1942

3. Depth of well 75 feet

4. Depth to static water Unknown

5. Is the well cased? Yes x No Unknown

If so, to what depth? _____

What type of casing is used? steel

6. Is well screened? Yes _____ No _____ Unknown ^x _____

7. How much is the well pumped? (Only for residential use or for use in watering livestock?) household

8. Any other pertinent information? No treatment. Pulled up piping above ground.

Problems when it rains with water quality.

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT SUPPLEMENT SHEET

Instruction - This sheet is provided to give additional information in explanation of a question on the form T2070-3.

Corresponding
number on form

Additional Remark and/or Explanation

VIII. U.

The following is FTT's recommended sampling plan (see attached sketches):

I. Off Site - Water course for drainage after leaving Air Center

Depth and type of sample: 1' deep sediment sample

Analysis performed: metals and cyanide and for phenols (SAS).

Justification for phenol analysis: Even though organic analysis in 1986 did not reveal phenols, phenols were detected in significant amounts in water and sediments in 1984. Also, because it is a semi-volatile and contaminants may still be coming from Air Center, analysis is recommended.

<u>Sample No.</u>	<u>Location</u>	<u>Justification</u>
*1	a) sediment b) water	North eastern end of spillway leading into Woodlake Pond from Air Center
2	Strip of land projecting into drainage path (see photo #9)	Possible point of accumulation of contaminants
3	SE end of pond close to drainage inlet	Possible point for contamination not attributable to Air Center
4	NE edge of pond	Furthermost end of pond and possible point for accumulation

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT SUPPLEMENT SHEET

Instruction - This sheet is provided to give additional information in explanation of a question on the form T2070-3.

Corresponding
number on form

VIII. U.

Additional Remark and/or Explanation

<u>Sample No.</u>	<u>Location</u>	<u>Justification</u>
5 & 6	Near both ends of spillway (photos 3 & 4)	To trace the migration of contaminants from lake into drainage path leading to swampy area.
7	Along the bend in the drainage path	Possible accumulation of contaminants
8 & 9	Swampy area to the NE of Woodlake Pond	To determine contamination into and out of swampy area
24	South of location #3	Background which may also give information on contamination due to residential areas

II. On-Site

<u>Sample #</u>	<u>Location</u>	<u>Type & Depth of Sample</u>	<u>Analysis Required</u>
10	NE corner of site	a) soil. 1' depth b) water sample	Metals and cyanides and phenols

Justification: Furthest point of contamination on-site. End of site drainage path.

11,12&13	Both sides of pipe and inlet to swampy area	soil. 1' depth	-do-
----------	---	----------------	------

Justification: To determine the migration path of contaminants.

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT SUPPLEMENT SHEET

Instruction - This sheet is provided to give additional information in explanation of a question on the form T2070-3.

Corresponding
number on form

VIII. U.

Additional Remark and/or Explanation

<u>Sample #</u>	<u>Location</u>	<u>Type & Depth of Sample</u>	<u>Analysis Required</u>
14	SE slope of lagoon into drainage ditch	soil. 1' depth	Metals and cyanides and phenols
<u>Justification:</u> Possible seepage from lagoon into drainage ditch.			
15	Near Dead Tree	soil. 1' depth	-do-
<u>Justification:</u> Possible accumulation of contaminants may have caused this.			
16	Breach in the berm	soil. 1' depth	-do-
<u>Justification:</u> Possible drainage path of contamination.			
17	Probable lo- cation of lagoon	soil. a) 1' depth soil. b) 6' depth	-do-
<u>Justification:</u> Lagoon said to have contained contaminants and later filled up with soil.			
18	Circular patch of dead vege- tation on lagoon (photo #20	soil. a) 1' depth soil. b) 6' depth	-do-
<u>Justification:</u> -do-			

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT SUPPLEMENT SHEET

Instruction - This sheet is provided to give additional information in explanation of a question on the form T2070-3.

Corresponding
number on form

VIII. U.

Additional Remark and/or Explanation

<u>Sample #</u>	<u>Location</u>	<u>Type & Depth of Sample</u>	<u>Analysis Required</u>
19	Probable lo- cation of lagoon (photo #13 and 15)	soil. a) 1' depth soil. b) 6' depth	-do-
<u>Justification:</u> -do-			
20	Near concrete drainage pipe (photo #12)	soil. a) 1' depth	-do-
<u>Justification:</u> Possible contamination from hangers through pipe.			
21	Circular patches on grass to the east of hanger (photo #21)	soil. 1' depth	-do-
<u>Justification:</u> Possible storage area for drums.			
22	Underground storage tank (photo 19&20)	Medium concen- tration sediment. Bottom of tank.	Metals and cyanide, organic- volatiles, extractable (extractable and pesticides). Phenols.
<u>Justification:</u> Storage for stripper waste.			

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT SUPPLEMENT SHEET

Instruction - This sheet is provided to give additional information in explanation of a question on the form T2070-3.

Corresponding
number on form

VIII.U.

Additional Remark and/or Explanation

<u>Sample #</u>	<u>Location</u>	<u>Type & Depth of Sample</u>	<u>Analysis Required</u>
23	North of paint stripping hanger	soil. a) 1' depth soil. b) 6' depth	Metals and cyanide, organic - volatiles, extractable (ex- tractables and pesticides), phenols

Justification: Background

Ground Water Sampling

(b) (9)

Residential Well Water

(b) (6)

Depth of well: 110'

Metals and cyanides
organic - volatiles,
extractable (ex-
tractables and
pesticides), phenols

26

City of Bethany
Municipal Well #21
Depth of Well: 70.5'

Water

-do-

(b) (9)

Residential Well Water

(b) (6)

Depth of Well: 75'

-do-

28

City of Bethany
Municipal Well #23
Depth of Well: Unknown
City of Bethany

Water

-do-

Justification: The above are drinking water wells within the 1-3 mile radius of site which are down gradient from site.

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT SUPPLEMENT SHEET

Instruction - This sheet is provided to give additional information in explanation of a question on the form T2070-3.

Corresponding
number on form

Additional Remark and/or Explanation

VIII.U.
(Cont'd)

<u>Sample #</u>	<u>Location</u>	<u>Type & Depth of Sample</u>	<u>Analysis Required</u>
(b) (9)	Residential Well (b) (6)	Water	Metals and cyanides, organic - volatiles, extractable (ex- tractable and pesticides), phenols

Justification: Background water sample located to the north-northwest of site and approximately three to four miles from the site and upgradient from it.

The FIT recon team did not find wells other than the City of Bethany Well #23 within one mile of the site. Areas outside the Bethany city limits are supplied by Oklahoma City, which gets its water from Lake Hefner.

The drainage path was followed from Woodlake Pond to the swampy area into a series of ponds and then over Bluff Creek Canal to possibly Ski Island and Silver Lake. No sampling locations were chosen further than the swampy area to the NE of Woodlake Pond as there would be cross contamination from numerous drainage inlets and drainage paths into these ponds.

The possible location of lagoon was determined from cross checking aerial photos against the unusual soft and dried grass bottom observed at the site to the southeast of the water tank.

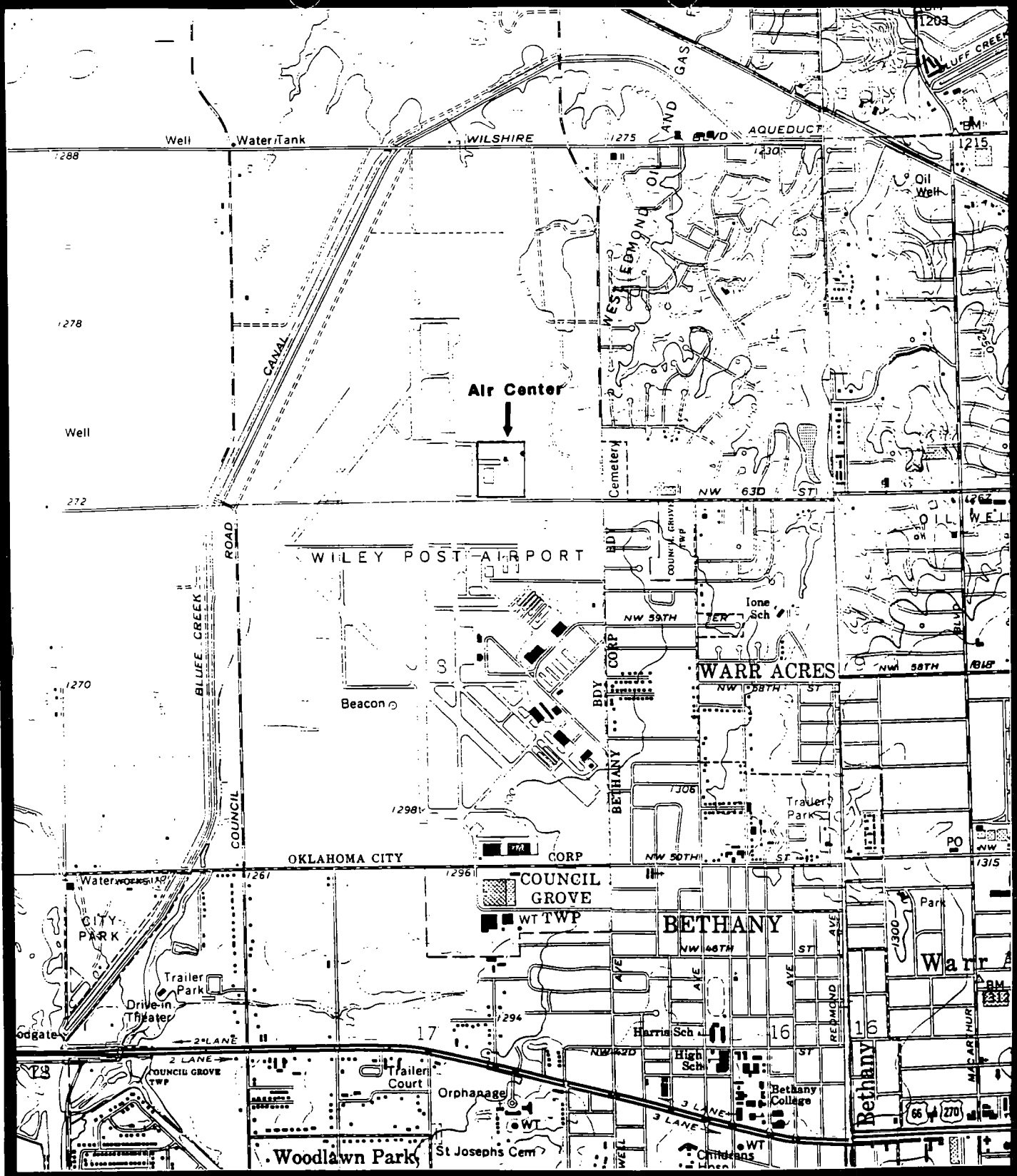
X.H.

No water wells were observed within a 1/4 mile radius of site. The closest well is located about 3/4 miles to the west of the site. This is a drinking water well belonging to the City of Bethany. The records show this well to have a static head of 42.2 feet.

There are residential drinking water wells within one to two miles to the south of the site, one to two miles to the southwest and two to three miles to the North of the site. The residential well survey forms are attached.

XIV.

The facility applied for a State Generator Disposal Plan on 10/17/83. It is not known whether any permit was issued, as the facility went out of business.



OKLAHOMA

QUADRANGLE LOCATION

U.S.G.S. 7.5 min.

TOPOQUADRANGLES

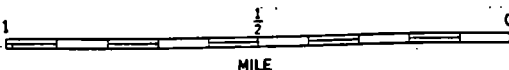
TITLE : SITE LOCATION

SITE NAME : Air Center

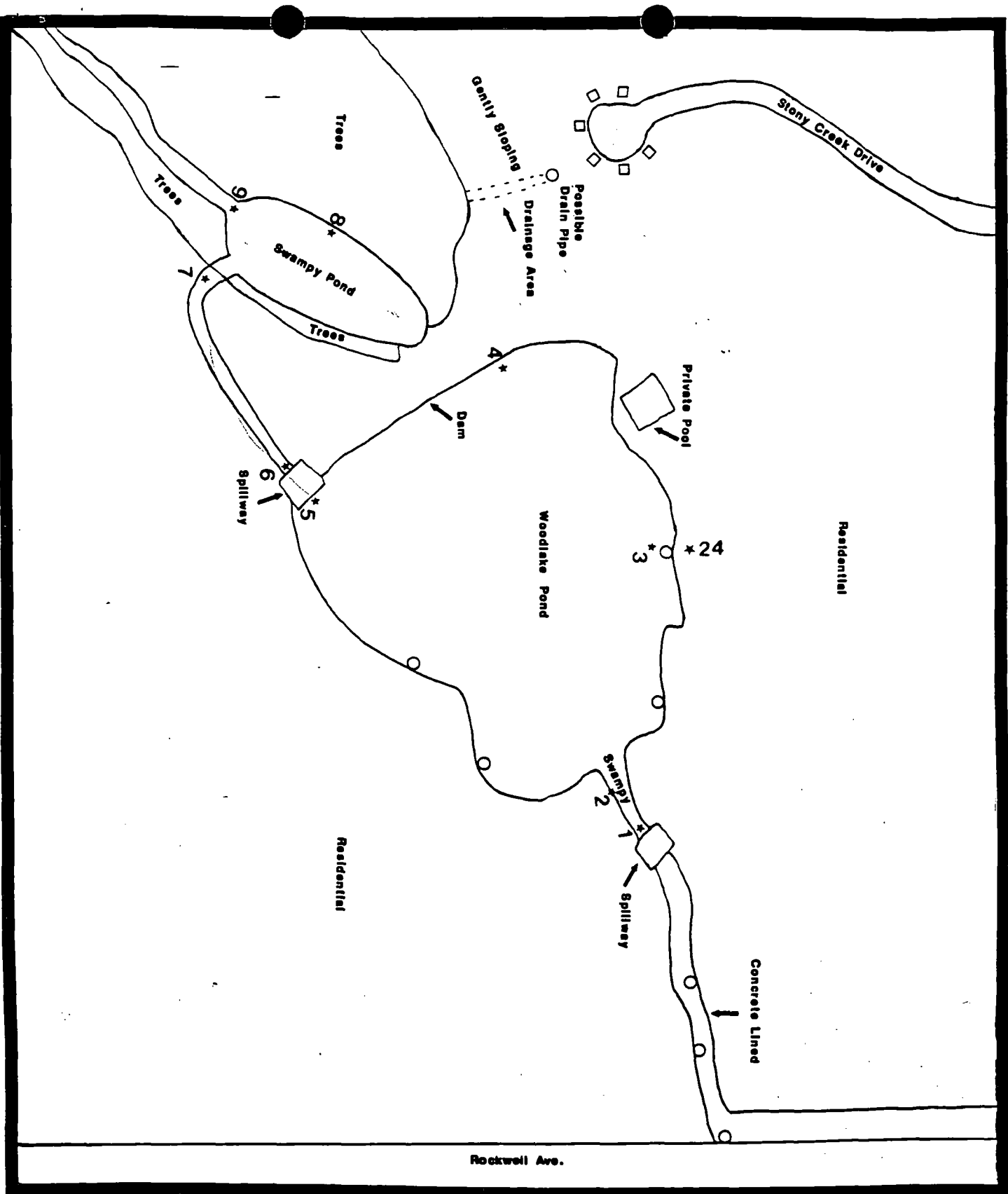
Oklahoma City, Oklahoma

CERCLIS NO. : OKD980750319

TDD NO. : F-6-8707-11



CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929



Water Course for Drainage Ditch after leaving Air Center

OKD980750319

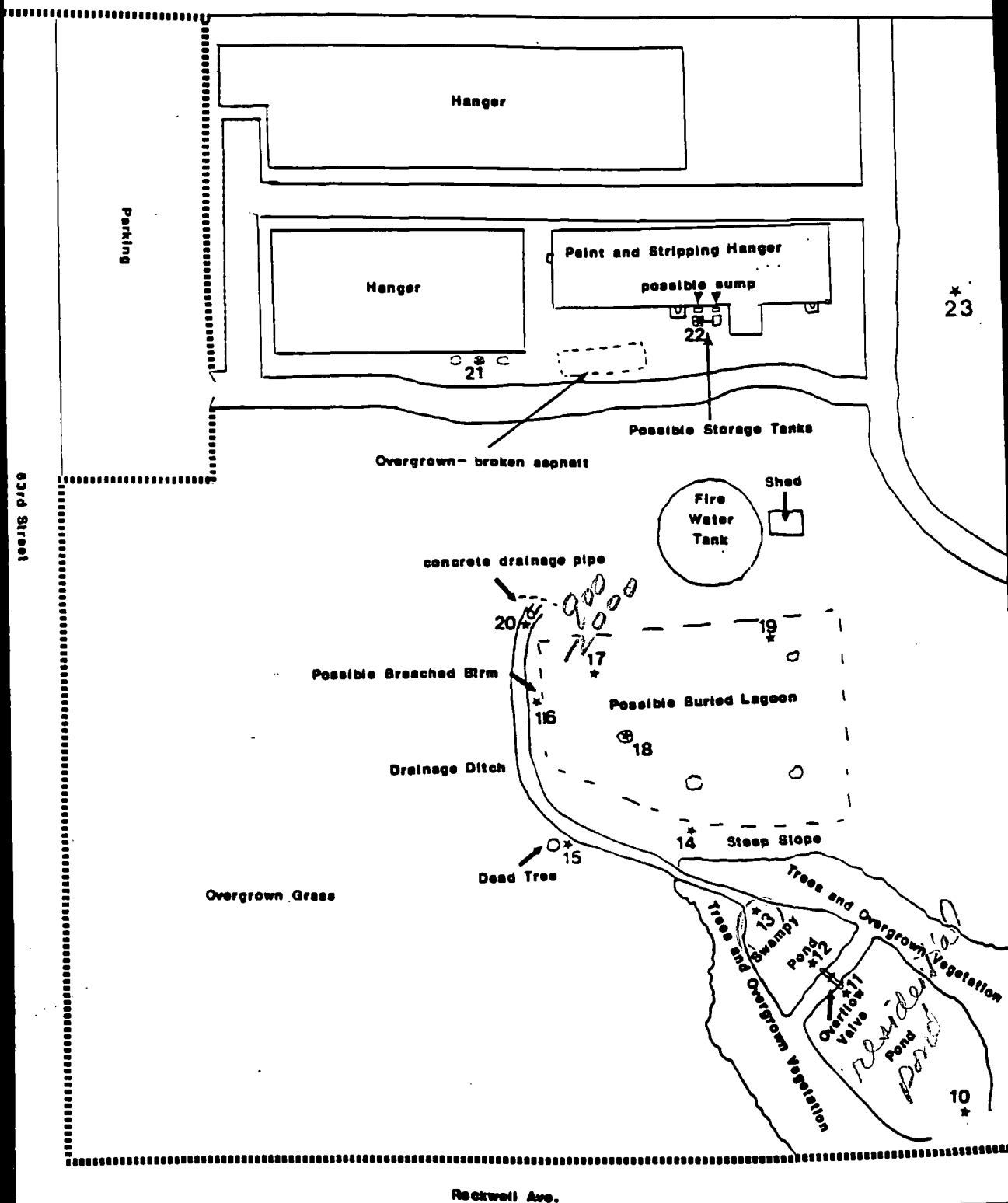
TDD# F-6-8707-11

← N

○ Drainage Inlets from Surrounding Streets

★ Proposed Sampling Points

Not To Scale



Site Sketch

Air Center Inc.

Oklahoma City, Oklahoma

OKD980750319

TDD# F-6-8707-11

Site Inspection: 7-23-87

- Spots of Dead Vegetation
- ===== Fence Line
- 2 * Possible Sampling Points



Not To Scale

A.

COMMENTS: Good work. I will be back and a new one, good!

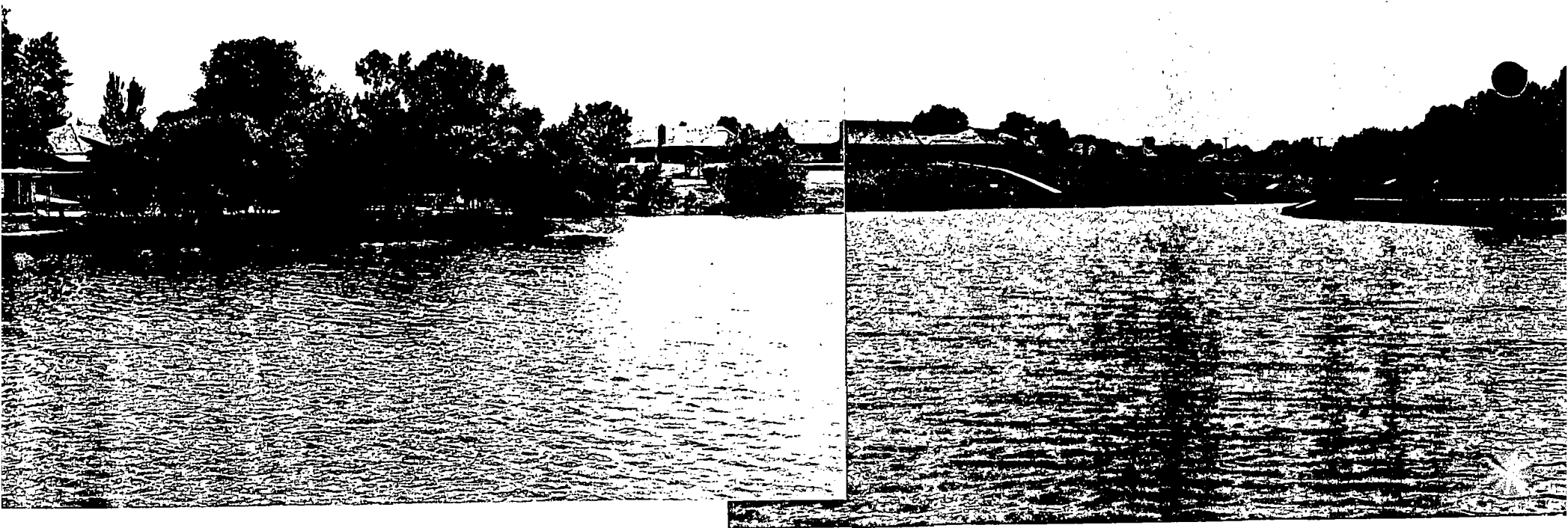


PHOTO # _____

PHOTOGRAPHER _____ WITNESS _____ DATE _____ TIME _____ DIRECTION _____

COMMENTS: _____

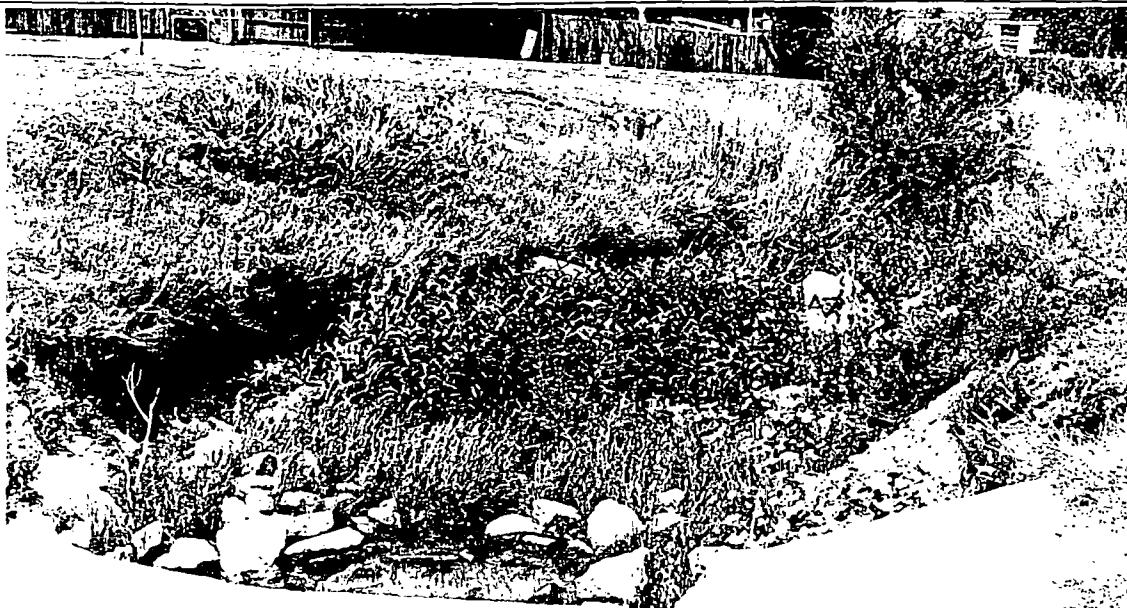


PHOTO # _____

PHOTOGRAPHER _____ WITNESS _____ DATE _____ TIME _____ DIRECTION _____

COMMENTS: _____



PHOTO # _____

PHOTOGRAPHER _____ WITNESS _____ DATE _____ TIME _____ DIRECTION _____

COMMENTS: _____



PHOTO # _____

PHOTOGRAPHER _____ WITNESS _____ DATE _____ TIME _____ DIRECTION _____

COMMENTS: _____

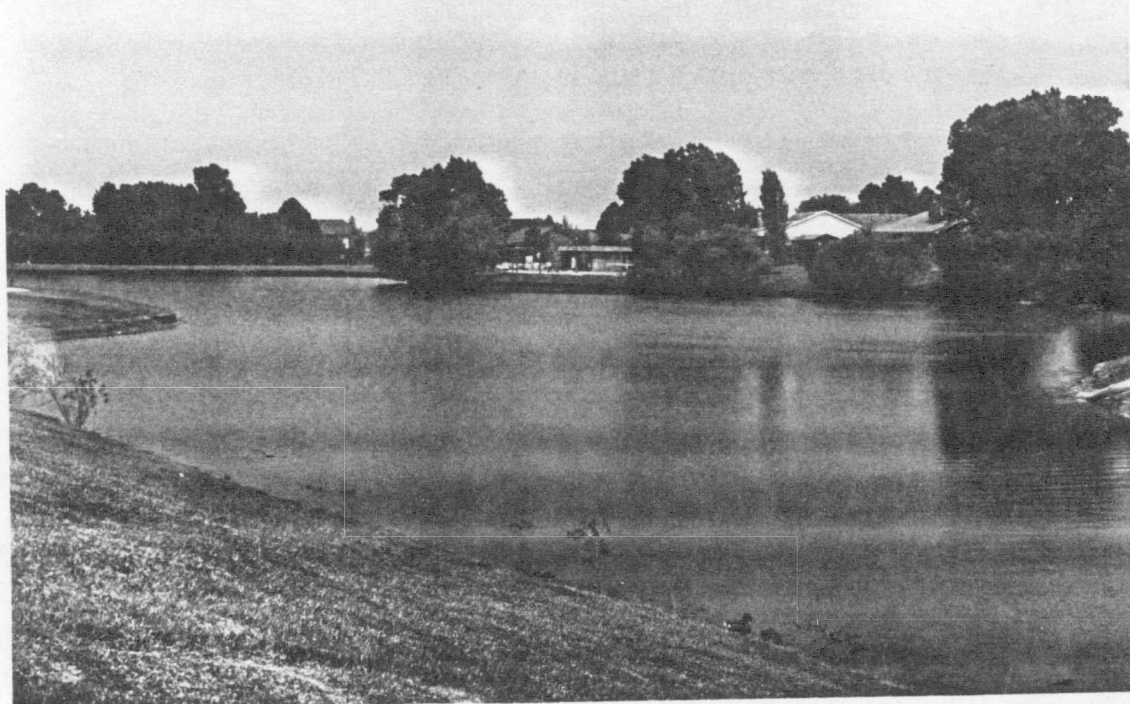


PHOTO # _____

PHOTOGRAPHER _____ WITNESS _____ DATE _____ TIME _____ DIRECTION _____

COMMENTS: _____

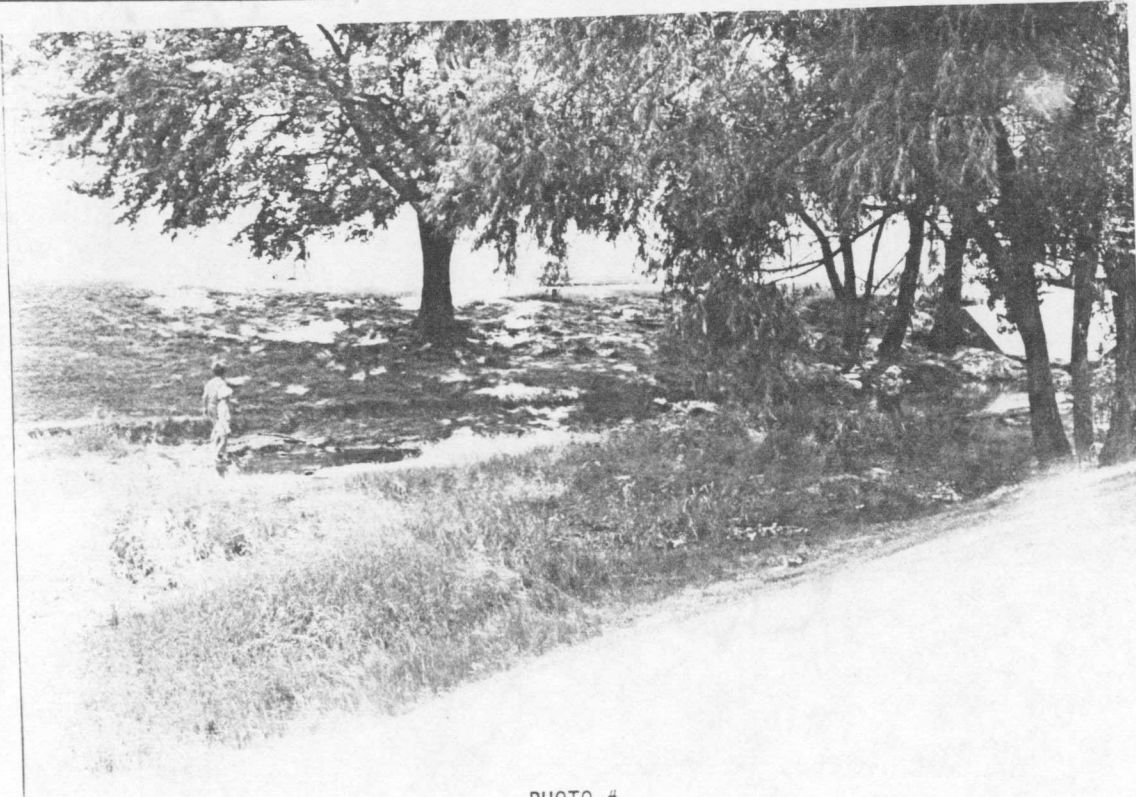


PHOTO # _____

PHOTOGRAPHER _____ WITNESS _____ DATE _____ TIME _____ DIRECTION _____

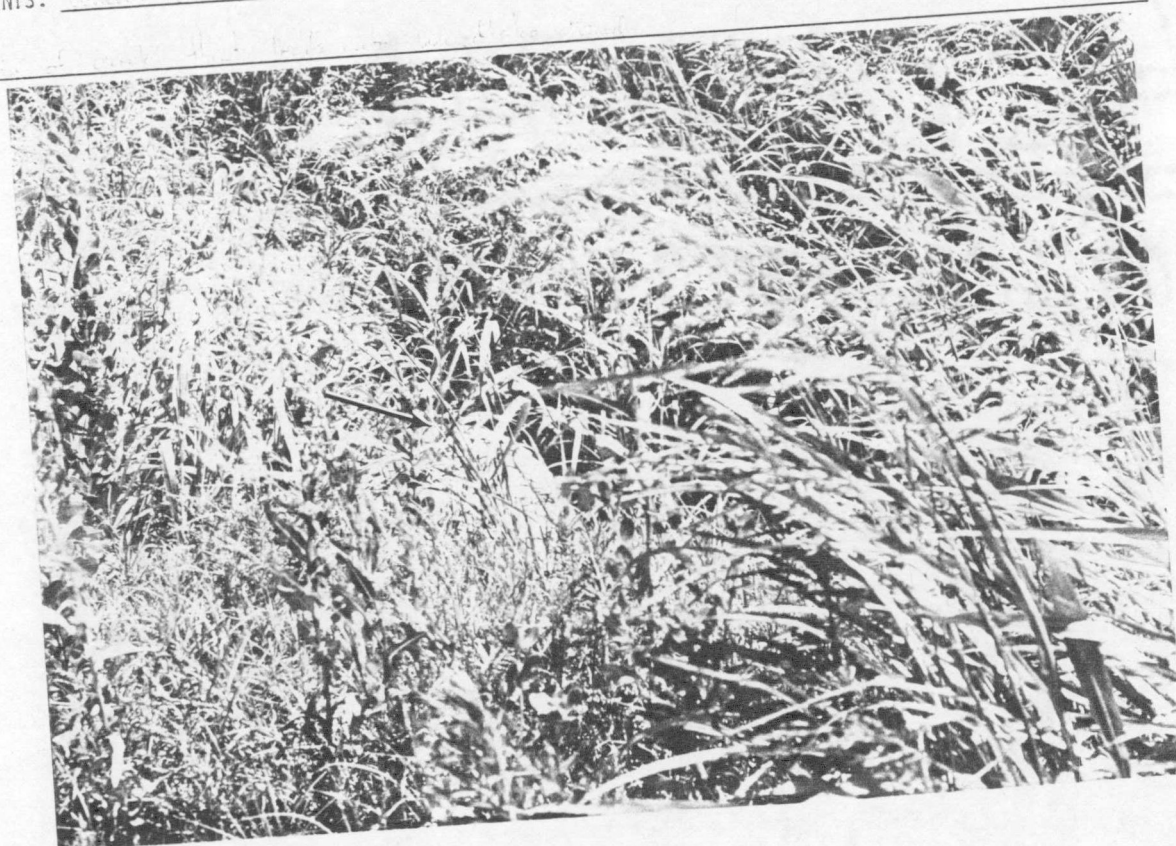
COMMENTS: _____



PHOTO # _____
DATE _____ TIME _____ DIRECTION _____
WITNESS _____
PHOTOGRAPHER _____
COMMENTS: _____



PHOTO # _____
DATE _____ TIME _____ DIRECTION _____
WITNESS _____
PHOTOGRAPHER _____
COMMENTS: _____



PHOTOGRAPHER John P. Parnell WITNESS Heather Schuch DATE 7-22-00 TIME 1300hrs DIRECTION E to W

COMMENTS: Partial ponding (2011) showing drainage canals and possible
be and lagoon locations



photos. 15-16

PHOTOGRAPHER John Paulick WITNESS William Schulz DATE 7-22-87 TIME 1:00 PM DIRECTION E to N

COMMENTS: Partial propane tank (2-16) showing remains of propane tank and propane
and five mile tank.

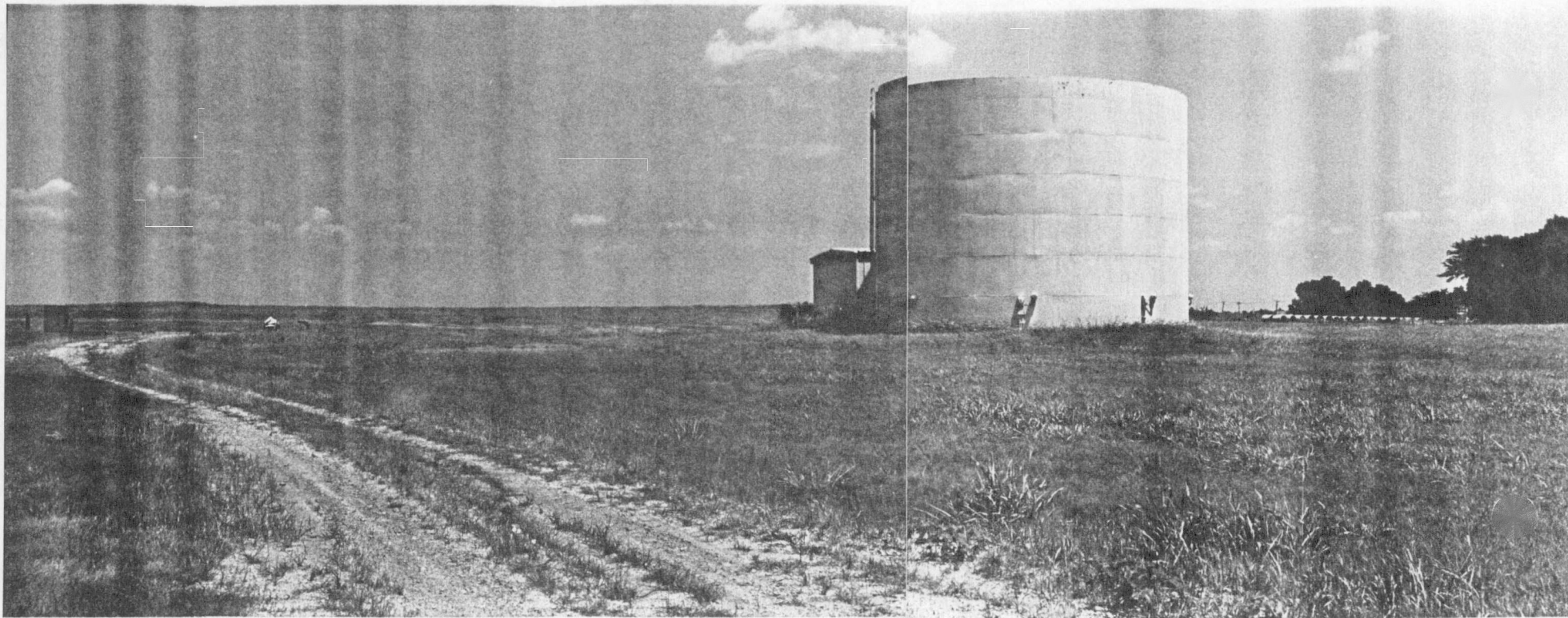


Photo 1160018

PHOTOGRAPHER Det. Pandak WITNESS W. H. Schult DATE 4-23-74 TIME 1300 DIRECTION E to N

COMMENTS: Partial perimeter (Zet 6) showing perimeter and temporary lounge as well as
the location of underground storage tanks

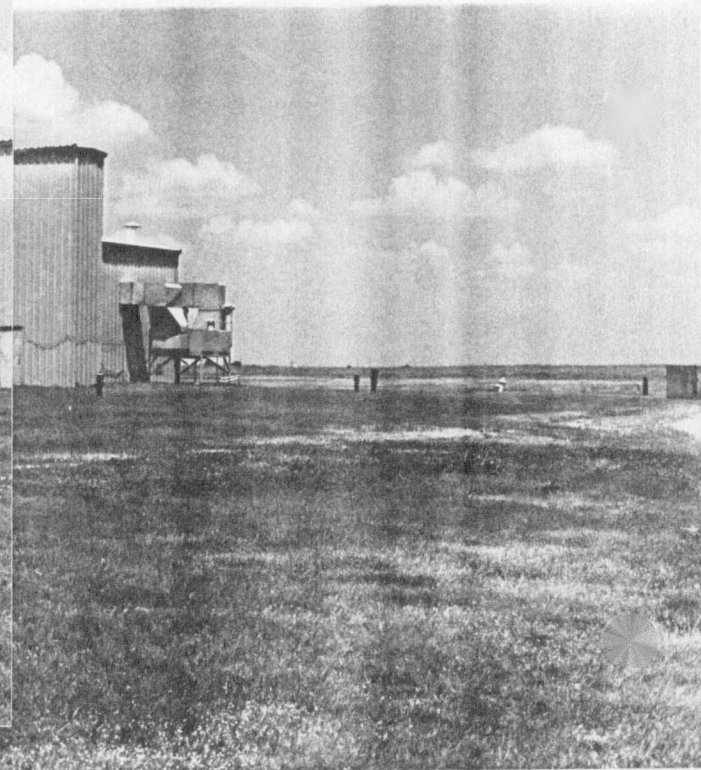
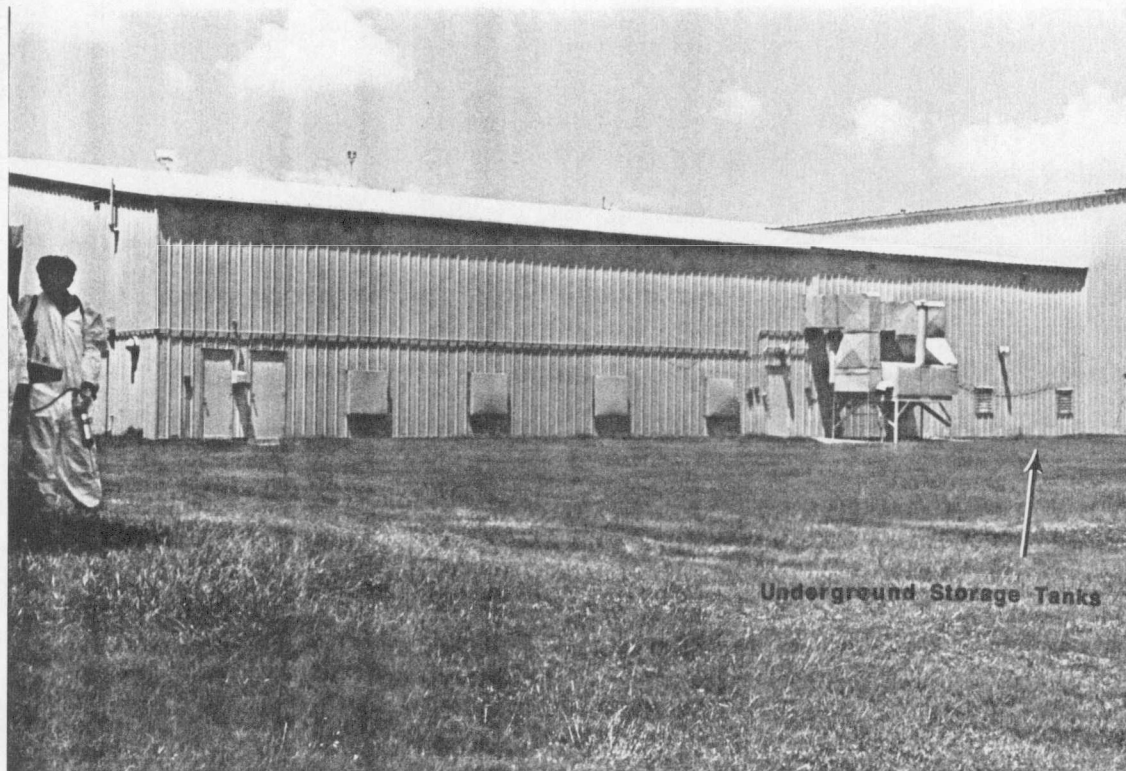
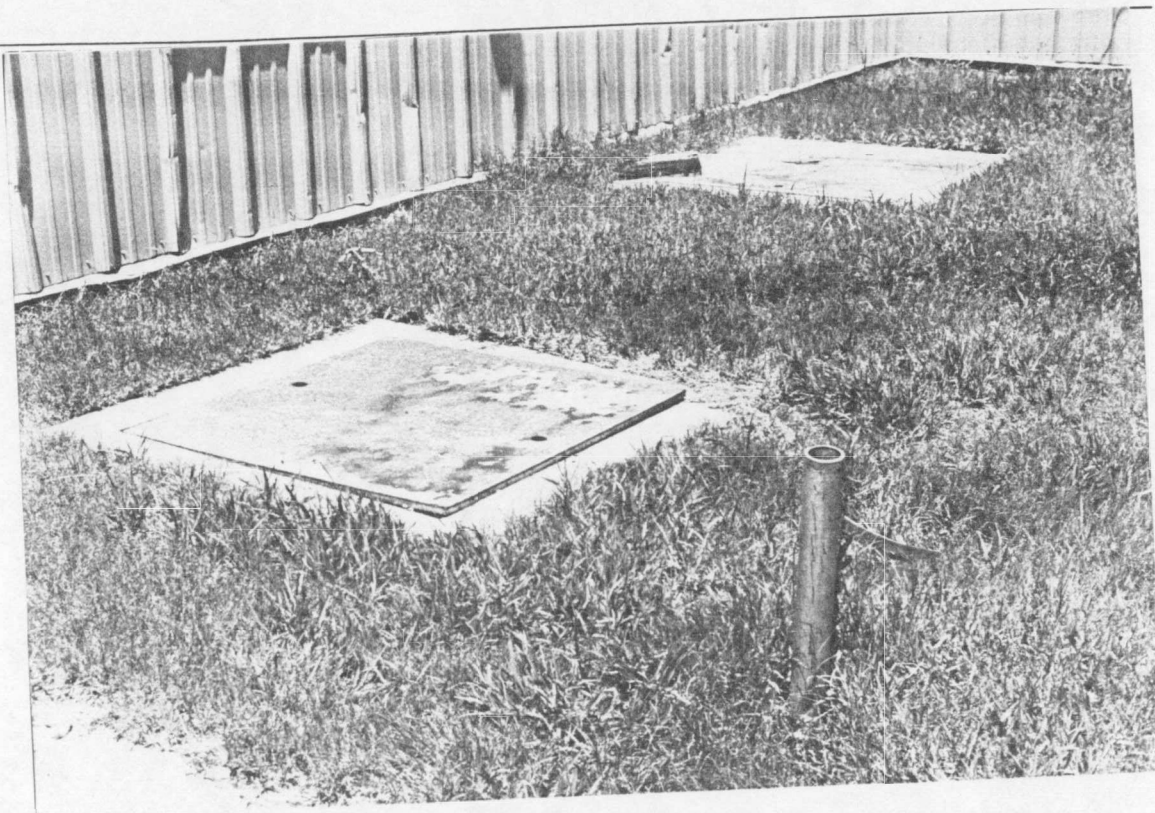


PHOTO # _____

PHOTOGRAPHER _____ WITNESS _____ DATE _____ TIME _____ DIRECTION _____

COMMENTS: _____



PHOTOGRAPHER _____ WITNESS _____ PHOTO # _____ DATE _____ TIME _____ DIRECTION _____

COMMENTS: _____

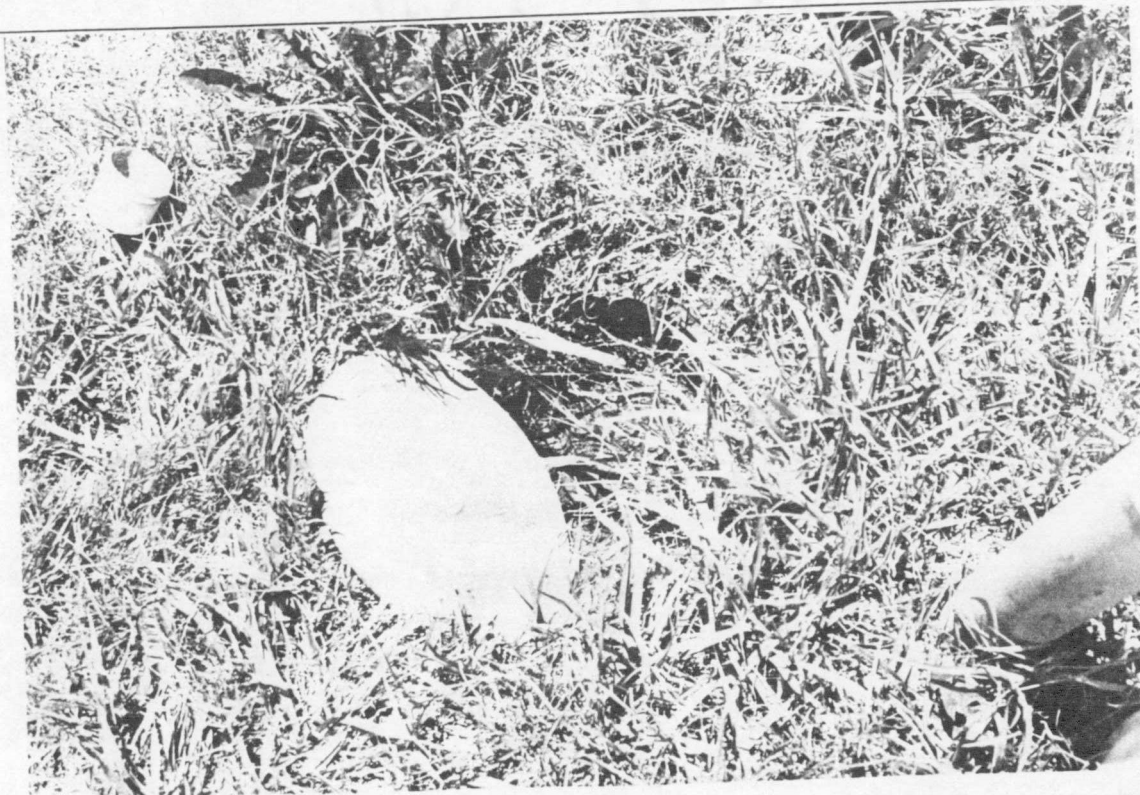


PHOTO # _____

PHOTOGRAPHER _____ WITNESS _____ DATE _____ TIME _____ DIRECTION _____

COMMENTS: _____

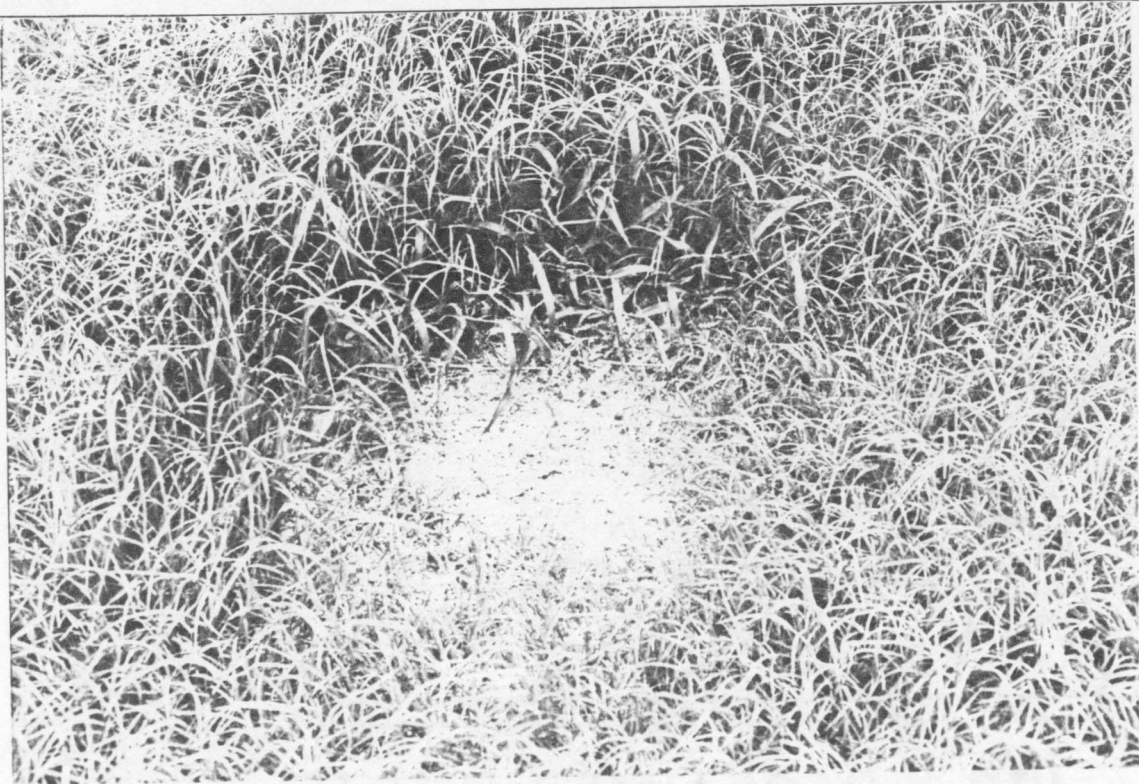


PHOTO # _____

PHOTOGRAPHER _____ WITNESS _____ DATE _____ TIME _____ DIRECTION _____

COMMENTS: _____

DATE:

Sept. 16/87

405-715108

MEM

Problem with Report
Call JCF

SUBJECT: Potential Hazardous Waste Site

FROM:

Dave Wineman, PIT RPO
Hazardous Waste Section (EH-SH)

TO:

Martha McKee, Chief
Compliance Section (EH-ES)RECEIVED
US EPA, DALLAS, TEXAS
1987 SEP-17 P 1:14
EMERGENCY RESPONSE SECTION
GE-E

Site Name:

Air Center, Inc.

Location:

Oklahoma City, OK

EPA ID No.:

OKD 980750319

TDD No.:

F06-8707-11

A. Deliverables:

1. Preliminary Assessment (Form 2070-2)
2. Site Inspection Report (Form 2070-3)
3. Sampling Inspection Report
4. Others: _____

attached ()
attached ☒
attached ()
attached ()

B. Were drinking water wells sampled?

Yes () No ()

C. Analytical Data:

1. None collected
2. Field data
3. Contract lab results
4. Houston lab results

()
()
attached ()
attached ()

D. Comments:

Recor inspection. A sampling plan
is included in this report.

cc: (circle) Cabra EH-S
Gazda GE-E
Taylor EH-DE



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
SUPERFUND SITE STRATEGY RECOMMENDATION - REGION 06



Filed in SA 03

Site Name: Air Center Inc., Wiley Post

CERCLIS ID#: OKD980750319

Alias Site Names: _____

Address: 7300 NW 63rd Street

City/County or Parish/State/Zip Code: City of Oklahoma City Oklahoma / Oklahoma County / Oklahoma

Report Type, Date, and Author: SIP / September 1994 / Elmer Daniels

RECOMMENDATION

☒ 1. No Further Remedial Action Planned (NFRAP)

☐ 2. Further Investigation Needed Under Superfund

☐ PA

☐ HRS

Priority: ☐ High

☐ SI

☐ RA

☐ Low

☐ ESI

☐ RI/FS

☐ Other: _____

To be performed by: _____

☐ 3. Action Deferred to: ☐ RCRA

☐ NRC

NOTIFY AUTHORITY:

☐ Removal

☐ RCRA

☐ TSCA

☐ CAA

☐ SMCRA

☐ Remedial

☐ State

☐ NPDES

☐ NRC

☐ Resource Trustee: _____

☐ CERCLA Enforcement ☐ Federal Facility

☐ UIC

☐ SPCC

☐ Other: _____

SEND COPIES TO: ☒ 6E-E

☒ 6W-SP

☒ ASTDR

☒ State Agency

SUPERFUND SITE STRATEGY RECOMMENDATION
Air Center Inc., Wiley Post

DISCUSSION: The Air Center Inc., Wiley Post site is a former aircraft stripping and painting facility. The site operated from 1973 to 1984. The site consisted of the building and three treatment lagoons. The lagoons contained waste water from run off from the operations. The lagoons have been filled with soil from airport operations. Sampling of soil in the lagoons indicated a release of chromium and solvent by-products.

HRS pathway analysis indicated the following site characteristics. The nearest well is 3/4 of a mile from the site. Sampling of wells in the area did not detect a release of contaminants. Due to the distance to the nearest well, migration of a significant concentration of contaminants is unlikely. Surface water flows into nearby Woodlake pond; however, sampling of the pond did not detect hazardous substances. Furthermore, since the lagoons have been filled, migration of significant concentrations of contaminants will not occur. The nearest residence is over a half a mile from the site. For this reason and the filling of the lagoons, a threat to public health via soil exposure and air migration pathways is not warranted.

Due to the lack of hazardous substances migration potential, the Air Center Inc., Wiley Post site does not meet the minimum criteria of a viable candidate for inclusion on the Superfund National Priorities List; therefore, the site is designated a disposition of No Further Remedial Action Planned (NFRAP), and at this time does not warrant further investigation under Superfund.

This site is being referred to The State of Oklahoma for any appropriate action under the states regulations.

APPROVALS:

Report Reviewed by:
(Site Assessment Manager)

Lon Biasco

Signature: _____



Date: 10/21/94

Disposition Recommended by:
(Section Chief)

Eddie A. Sierra

Signature: _____

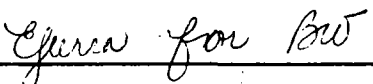


Date: 10/21/94

Disposition Approved by:
(Branch Chief)

Betty Williamson

Signature: _____



Date: 10/21/94



FLUOR DANIEL ARCS TEAM

Members: Fluor Daniel, Inc.
I.T. Corporation
PEI Associates, Inc.
Life Systems, Inc.

Program Office:
12790 Merit Drive
Suite 200, LB 169
Dallas, TX 75251
Tel (214) 450-4100
Fax (214) 450-4101

September 13, 1994

FDI/ARCS # 2999

U.S. Environmental Protection Agency
Attn: Stacey Bennett, P.E. (6E-SH)
Work Assignment Manager
1445 Ross Avenue, Suite 1000
Dallas, Texas 75202

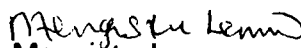
CONTRACT NO. 68-W9-0013
NARRATIVE REPORT / PRESCORE
AIR CENTER, INC. WILEY POST
EPA ID NO. OKD980750319
OKLAHOMA CITY, OKLAHOMA COUNTY, OKLAHOMA
SITE INSPECTION PRIORITIZATION
WORK ASSIGNMENT NO. 33-6JZZ

Dear Ms. Bennett:

Attached is the Narrative Report and supporting documentation for the above-referenced site. We have also attached a 3.5" disk with an electronic copy of the Narrative Report and PREscore. With your approval, this submittal constitutes completion of our work for this site.

Should you have questions or require additional information, please contact either of the undersigned at (214) 450-4100.

Sincerely,


Mengistu Lemma
ARCS Technical Manager


Robert K. Franke
ARCS Deputy Program Manager

ML:RF:kp

Attachments

REFERENCE 4

**LETTER. Subject: Resampling of the Municipal Wells Located Near the Air Center, Inc.
From: Ravinder Joseph, ICF Technology, Inc. To: David Wineman, EPA Region 6, RPO,
October 24, 1988.**

Joan K. Leavitt, M.D.
Commissioner

File A. B-1
**OKLAHOMA STATE
DEPARTMENT OF HEALTH**

Board of Health

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W. A. "Tate" Taylor

P.O. BOX 53551
1000 N.E. TENTH
OKLAHOMA CITY, OK 73152

AN EQUAL OPPORTUNITY EMPLOYER

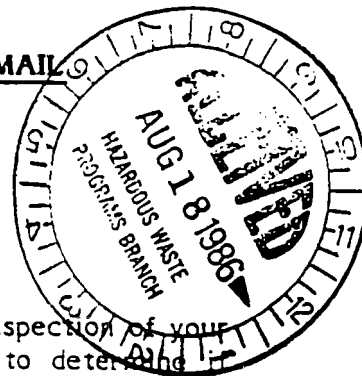


August 12, 1986

Barbara Marrs
Gulfstream Aerospace Corporation
5001 North Rockwell
Bethany, OK 73008

Dear Ms. Marrs:

CERTIFIED MAIL



This is a **WARNING LETTER** promulgated as a result of an inspection of your facility on July 11, 1986. The purpose of the inspection was to determine if Gulfstream Aerospace Corporation was in compliance with the Oklahoma Rules and Regulations for Industrial Waste Management. The following areas of non-compliance were noted:

1. Gulfstream has failed to ship waste off-site within the ninety (90) day storage time limitation. Rule 3.18 (See 40 CFR 262.34) states that on-site storage by the generator for periods in excess of ninety (90) days shall not be allowed unless the generator meets the requirements of 40 CFR part 264 or 265, as applicable, as they have been incorporated by reference, and State permit requirements meeting the Standards of Chapter 8 of the Rules and 40 CFR Part 270.

A generator who accumulates waste for more than ninety (90) days becomes an operator of a storage facility. Gulfstream has violated the rules for storage facilities, which include but are not limited to requirements for notification, permitting, and financial assurance, as well as the maintenance of a waste analysis plan, contingency plan, closure plan, inspection schedule and associated logs, personnel training records, and the posting of proper warning signs.

2. Gulfstream has failed to mark all of the storage containers and the storage tank, as required by Rule 3.16 (See 40 CFR 262.32(b) and 40 CFR 262.34(a)(2)). The hazardous waste label and start of accumulation date appeared only on a few of the containers to be shipped. It must be marked on all containers and the tank.
3. Gulfstream has failed to inspect the tank and storage containers, as required by Rules 7.8 and 7.9 (See 40 CFR 265.194 and 40 CFR 265.174). The containers and tank must be inspected at least weekly for signs of leakage or corrosion. In Gulfstream's contingency plan is a copy of a containers inspection log; however, this form has not been used. Neither the containers nor tank are inspected. No log exists for inspecting the tank or other plant safety and security devices.
4. Gulfstream has failed to include the tank closure in the facility closure plan, as required by Rule 7.9 (See 40 CFR 265.112). The closure plan must include steps to close the facility, estimate of maximum inventory of wastes at the facility, list steps needed to decontaminate equipment, and expected year of closure with a schedule of closure. The closure plan must be revised to also include any changes in facility design or operation. Additionally, 40 CFR 265.142 requires

04-12

Mailed
8/13/86
52.

Ms. Marrs
Gulfstream Aerospace Corp.
August 12, 1986
Page 2

that the cost estimate for closure be adjusted annually. Gulfstream's closure cost figures need to include the tank closure and increased cost/inflation, since the plan was written in 1982.

5. Gulfstream has failed to meet the personnel training and recordkeeping requirements of Rule 7.1.6 (See CFR 265.16). 40 CFR 265.16 requires that:
 1. facility personnel complete a training program,
 2. the program be directed by a person trained in hazardous waste management procedures,
 3. the program be designed to ensure that personnel are able to effectively respond to emergencies,
 4. personnel be trained within six (6) months of employment and this training reviewed annually,
 5. training records be maintained at the facility.

The training records must contain:

- a) job title for each position related to controlled industrial waste and the name of each employee filling a position,
 - b) written job description for each job title, including the requisite skill, education or other equivalent education, and duties of personnel assigned to each position,
 - c) description of type and amount of both introductory and continuing training that will be given to each person filling a position, and
 - d) records that document that the required training has been given to or completed by facility personnel.
6. Gulfstream has failed to provide local authorities with copies of the contingency plan, as required by Rule 7.1.6 (See 40 CFR 265.53). The copies have not been sent and no documentation is provided to demonstrate receipt by local emergency response agencies.
7. Gulfstream has not included in its contingency plan the required emergency coordinator information under Rule 7.1.6 (See 40 CFR 265.52(d)). A list of names, addresses and phone numbers (office and home) of all persons qualified to act as emergency coordinator must be included in the contingency plan, and the person acting as primary coordinator must be identified.

Ms. Marrs
Gulfstream Aerospace Corp.
August 12, 1986
Page 3

8. Gulfstream must amend its contingency plan in order to comply with Rule 7.1.6 (See 40 CFR 265.52 and 40 CFR 265.56). In amending the plan the following areas need improvement:
 - a. Emergencies involving the storage tank must be addressed.
 - b. More detail is needed regarding the list of emergency equipment, which must include the location of each item and its capabilities.
 - c. Evacuation routes and alternate routes need to be addressed.
 - d. The map of the facility contains extraneous information and does not depict the currently used waste storage areas.
 - e. Page 3 of the text says the storage area is for waste kept in excess of 90 days. This should read not in excess of 90 days.
 - f. Appendix I of the plan does not state that the Director of the Oklahoma State Department of Health, Industrial Waste Division will receive the outlined incident report.
 - g. Appendix G states that amendments to the contingency plan will be made six (6) months after review. The regulations require that these amendments be made immediately.
9. Gulfstream has contaminated the environment as the result of an accidental acid spill onto the ground. In addition to the spill the improper handling of lead contaminated foundry sand has prompted the need for an environmental clean-up plan under the provisions of Chapter 6 of the Rules and Regulations. Lead and chromium contaminated soil must be managed and disposed of as controlled industrial waste. The test results of samples taken after the spill are included in the attached inspection report.

The above-mentioned items are serious violations of the Oklahoma Controlled Industrial Waste Disposal Act and the Rules and Regulations promulgated pursuant to the Act. Please take all necessary actions to correct these violations within thirty (30) days of receipt of this letter. You must notify us of your intentions with regards to item number one above. If you wish to operate as a storage facility, all of the referenced requirements of Rule 3.18 must be met.

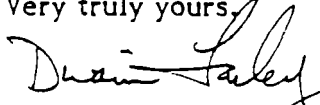
Immediately commence proper labeling and dating of your containers and storage tank. Perform required inspections and amend the facility closure plan. Implement a personnel training program and appoint an emergency coordinator. Amend the contingency plan and provide copies to local authorities. Establish-in writing-procedures implemented to clean up contaminated soil. Laboratory analyses show the soil to be EP toxic for lead and chromium; as such, this soil is to be disposed of as controlled industrial waste.

Ms. Marrs
Gulfstream Aerospace Corp.
August 12, 1986
Page 4

Failure to comply with the directives of this warning letter may subject Gulfstream Aerospace Corporation to further enforcement action, which may include an administrative order assessing penalties.

If you have any questions or require further information regarding this matter, please contact Lynne Doty or Mr. Ken E. Raymond of my staff at (405) 271-5338.

Very truly yours,



For Donald A. Hensch, R.E., Director
Industrial Waste Division

DAH/KER/LD/sc
LDI

Enclosure: Checklist

cc: Buddy Parr (6H-HP)
U.S. EPA
Region VI

Gulfstream 7/11/86

Generator Only
Checklist Narrative

Item

- 1.0 The Contingency plan contains an outline for a personnel training program. This outline however
- 2.0 has not been implemented. A person trained in hazardous waste management procedures is not
- 3.0 directing a training program. As no training program is carried out there are no training records and annual reviews are non-existent.
- B-1 On Mar. 22, 1986 Gulfstream reported a waste spill of hydrofluoric and chromic acid onto the ground. This soil was neutralized and removed to storage bins. Removed soil was EP toxic for Chromium. In situ soil showed lead contamination from foundry sand disposal which as yet has not been removed and is EP toxic. See narrative to generator's Checklist item B.1 + B.2.
- C-3.C The Contingency plan does not spell out the names and addresses or phone numbers for the emergency coordinators. More details are needed regarding the list of emergency equipment to include the locations of each item and the items capabilities. Evacuation routes and alternate routes are not marked on the facility Contingency map. The map contains extraneous information and does not
- C.3.1
- C.3.2

Gulfstream 7/11/86

Generators Only Narrative Cont

Item

depict the currently used waste storage areas. The text needs to include the storage tank which was added since the plan was written in 1982.

The text of the contingency plan (page 3) states the storage area for containers is used for waste remaining an excess of 90 days. The sentence should read not in excess of 90 days. Appendix E of the contingency plan has an inspection form for the container storage area but not one for inspecting the tank and safety and emergency equipment. Appendix I lists the agencies who are to receive incident reports; the Director of OSHA Industrial Waste Division was left off this list. Appendix G states amendments will be made to the contingency plan 6 months after review, the regulations require that amendments be made immediately. This contingency plan must be updated. Local authorities have not been provided a copy of the contingency plan - they must be provided an amended version as the existing plan is out of date.

C.5

Area of
N/C

- l. Transporter's telephone number.
- m. Secondary transporter information (if applicable)
- n. Disposal facility name
- o. Disposal facility EPA ID number
- p. Disposal facility address
- q. Facility's telephone number
- r. Alternate facility information (if any)
- s. D.O.T. description of waste(s)
- t. Total quantity of each hazardous waste by units of weight or volume, and the type and number of containers as loaded onto vehicle.
- u. EPA waste code (if applicable)
- w. OK waste code

6. (a) Did generator obtain handwritten signature and date of acceptance from initial transporter? ☒ Yes ☐ No

(b) Who signed and dated for transporter? (Rule 4.3.1)

Name Various Title Truck driver

7. Does generator retain one copy of manifest signed by generator and transporter? (Rule 3.9) ☒ Yes ☐ No

8. Do returned copies of manifest include facility owner/operator signature and date of acceptance? (Rule 3.10) ☒ Yes ☐ No

9. If copy of manifest from facility was not returned within 45 days, did generator file an exception report? (Rule 3.10 et seq.) NA ☐ Yes ☐ No

(a) If yes, did it contain the following information

1) Legible copy of manifest NA ☐ Yes ☐ No

AND

2) Cover letter explaining generator efforts to locate waste. NA ☐ Yes ☐ No

10. Does (will) generator retain both copies of manifest for 3 years? (Rule 1.3.1.5.1) ☒ Yes ☐ No

Section D Pre-Transport Requirements

(THESE REQUIREMENTS APPLY ONLY TO CONTAINERS THAT ARE BEING OFFERED FOR SHIPMENT OFF-SITE)

1. Does generator package waste? ☒ Yes ☐ No

If no, skip the rest of Section D

If yes, complete the following questions

2. Does generator package waste in accordance with 49 CFR 173, 178, and 179? (DOT requirements) (Rule 3.16(a) IAW 262.30 - Packaging) ☒ Yes ☐ No

Area of
N/C

3. Inspect containers to be shipped. (Rule 3.16(a))

a. Are containers to be shipped leaking or corroding or bulging?

____ Yes ☒ No

b. Use narrative explanations sheet to describe containers and condition.

c. Is there evidence of heat generation from incompatible wastes in the containers?

____ Yes ☒ No

4. Does the generator follow DOT labeling requirements before transport in accordance with 49 CFR 172? (Rule 3.16(c) IAW 262.31 labeling) *USPCI does*

☒ Yes ____ No

5. Does the generator mark each package before transport in accordance with 49 CFR 172? (Rule 3.16(c) IAW 262.32 - Marking)

☒ Yes ____ No

6. Is each container of 110 gallons or less marked with the following label before transport? (Rule 3.16(c) IAW 262.32 - Marking) *not all*

____ Yes ☒ No

Label saying: HAZARDOUS WASTE - Federal Law Prohibits Improper Disposal. If found, contact the nearest police or public safety authority or the U.S. Environmental Protection Agency

Generator's Name and Address _____

Manifest Document Number _____

7. If there are any vehicles present on site loading or unloading hazardous waste, inspect for presence of placards. Note this instance on narrative explanation sheet. (Rule 3.16(d) IAW 262.33)

NA

SECTION E - Accumulation Time
(Rule 3.17 and 3.18 IAW 262.34 - Accumulation Time)

1. Is facility a permitted storage facility or does the facility have interim status?

____ Yes ☒ No

2. If no:

a. Is hazardous waste shipped off-site within 90 days? *Have been exceptions see narrative*

____ Yes ☒ No

b. Are containers used to store waste?

☒ Yes ____ No

(1) Is the beginning date of accumulation time clearly indicated? (Rule 3.15b)

____ Yes ☒ No

3.16b

Area of
N/C

- c. (1) Does generator inspect containers for leakage or corrosion? (Rule 3.16(a) IAW 265.174 - Inspections) *re-use product drums to ship waste, uspet provides overpacks* Yes ☒ No
- d. (1) Does generator handle ignitable or reactive waste? ☒ Yes No
- (2) If yes, does generator locate containers holding ignitable or reactive waste at least 15 meters (50 feet) inside facility's property line? (Rule 3.16(a) IAW 265.176 - Special Requirements for Ignitable or Reactive Wastes) ☒ Yes No

NOTE: If generator accumulates waste on-site for less than 90 days, fill out Generator Only Supplemental Checklist.

3. Describe storage area. ~~Use photos and narrative explanation sheet.~~ *Concrete slab floor inside of storage building with special area roped off.*
- Section F-Recordkeeping and Records

1. Is generator keeping the following reports? (Rule 1.2.1.5.1 & 3.12 IAW 262.41 - Recordkeeping)(Note: the following must be kept for a minimum of three (3) years.)
- a. Manifests and signed copies from designated facilities? ☒ Yes No
- b. Quarterly Reports (Rule 3.12, 3.7) ☒ Yes No
- c. Exception Reports (Rule 3.10) NA Yes No
- d. Test results where applicable. ☒ Yes No
- e. Biennial Reports for each odd number year (Rule 3.12) ☒ Yes No

2. Where are records kept (at facility or elsewhere)?

At Facility Office

3. Who is in charge of keeping the records?

Name Gayla Williams Title Records Clerk/Dispatches

Section G. - Special Condition

1. Has generator received from or transported to a foreign source any hazardous waste? (Rule 3.11 IAW 262.50 - International Shipments) Yes ☒ No

Area of
N/C

If yes,

a. Has he filed a notice with the Director

b. Is this waste manifested and signed by
Foreign Consignee?

c. If generator transported wastes out of the
country has he received confirmation of
delivered shipment?

NA
____ Yes ____ No

____ Yes ____ No

____ Yes ____ No

PLANT Mulstream Aerogel
DATE July 11, 1986

Yes ☒ No

RATOR ONLY SUPPLEMENTAL CHECKLIST

es for Generators which accumulate at least 1000 kg
(1.) Tanks or (2.) Containers
ore Over 90 Days (Required by Rule 3.16)
Exception of 90 Day Storage Requirement

☒ Yes No

operator have a personnel training program
are applicable: (IAW 265.16 - Personnel Training)

for using, inspecting, repairing, and
ility emergency equipment.

Yes No

☒ Yes No

ers for automatic waste feed cut-off

N/A Yes No

☒ Yes No

for using communications or alarm systems.

Yes No

☒ Yes NO

o fires or explosions.

Yes No

o groundwater contamination incidents.

Yes No

☒ Yes No

operations.

Yes No

rogram directed by a person trained in
management procedures?
ersonnel Training)

Yes ☒ No

operator maintain Personnel Training records
(IAW 265.16--Personnel Training)

Yes ☒ No

hey include:

e for each position related to controlled
al waste management and the name of each
e filling a position?

N/A
Yes No

☒ Yes No

job description for each job title including
isite skill, education or other equivalent
on and duties of personnel assigned to each
?

Yes No

otion of type and amount of both introductory
ntinuing training that will be given to each
filling a position.

Yes No

Yes ☒ No

is that document that the required training
en given to or completed by facility
nel?

☒ Yes No

☒ Yes No

Area of
N/C

5. In the case that more than one police or fire department might respond, is there a designated primary authority? (IAW 265.37 -Arrangements with local authorities)

☒ Yes ☐ No

a) If yes, indicate primary authority Wile Post Airport Fire Dept.

b) Is the fire department a city or volunteer fire department? city

6. Does the owner/operator have phone numbers of and agreements with State emergency response teams, emergency response contractors and equipment suppliers? (IAW 265.37 - Arrangements with local authorities)

☒ Yes ☐ No

Are they readily available to the emergency coordinator? ☒ Yes ☐ No
Bethlehem Marriott Hotel, Personnel Office / Public Rel.

7. Has the owner/operator arranged to familiarize local hospitals with the properties of hazardous waste handled and types of injuries that could result from fires, explosions, or releases at the facility?

☒ Yes ☐ No

If no, has the owner/operator attempted to do this?

NA Yes ☐ No

8. If the State, or local authorities decline to enter into the above referenced agreements, has this situation been entered in the operating record? (IAW 265.37 -Arrangements with local authorities)

NA Yes ☐ No

Section C - Contingency Plan and Emergency Procedures

1. Does the facility have a contingency plan? (IAW 265.51 - Purpose and implementation of Contingency Plan)

☒ Yes ☐ No

a) If yes, is it maintained at the facility? (IAW 265.53 -Copies of Contingency Plan)

☒ Yes ☐ No

2. Is the contingency plan a revised SPCC Plan? (IAW 265.52 - Content of Contingency Plan))

☐ Yes ☒ No

3. Does the contingency plan contain the following information: (IAW 265.52 - Content of Contingency Plan)

☒ Yes ☐ No

a) A description of the actions to be taken by facility personnel in the event of fire, explosion, or release of controlled industrial waste?

☒ Yes ☐ No

b) A description of the arrangements with local authorities?

☒ Yes ☐ No

Area of
N/C

c) A list of names, addresses, and phone numbers (office and home) of all persons qualified to act as emergency coordinator?

____ Yes ☒ No

d) A list of all emergency equipment including 1) the location of each item 2) a physical description of each item on the list and 3) an outline of each item's capabilities? *Partial*

____ Yes ☒ No

e) An evacuation plan where there is a possibility that evacuation could be necessary including

____ Yes ☒ No

1) signals to begin evacuation

2) evacuation routes

3) alternate evacuation routes

____ 4. Is there an emergency coordinator on site or within short driving distance of the plant at all times?
(IAW 265.55 - Emergency Coordinator)

☒ Yes ____ No

☒ 5. Has the facility supplied all local authorities and State response teams with a copy of the contingency plan? (IAW 265.53 - Copies of Contingency Plan)

____ Yes ☒ No

____ 6. Has the contingency plan ever been implemented?
(IAW 265.56 - Emergency Procedures)

☒ Yes ____ No

a) If yes, was a written report submitted to the Director within 15 days after the incident?

☒ Yes ____ No

FACILITY

DATE

Gulf Stream Corrosy
7/11/86CONTAINERS STORAGE CHECKLIST
(Rule 7.1.6 & 7.8)

Area of

N/C

1. Does the facility store hazardous waste in containers?
(IAW 265.170) (Includes hoppers and gondolas)

☒ Yes ☐ No

If no, do not complete this form.

2. Are the containers in good condition?
(check for leaks, corrosion, bulges, etc.)

☒ Yes ☐ No

3. If a container is found to be leaking, does the
operator transfer the hazardous waste from the
leaking container? (IAW 265.171)

☒ Yes ☐ No

4. Is the waste compatible with the containers and/or
its liner? (IAW 265.172)

☒ Yes ☐ No

If no, explain in narrative.

5. Are the stored containers closed?

☒ Yes ☐ No

If no, explain in narrative.

6. Are containers holding hazardous waste opened,
handled, or stored in such a manner as to cause
the container to rupture or leak? (IAW 265.173)

☐ Yes ☒ No

If yes, explain in narrative.

7. Are areas where containers are stored inspected at least
weekly looking for container leaks and for deterioration
caused by corrosion or other factors? (IAW 265.173)

☒ Yes ☒ No

8. Are containers holding ignitable or reactive wastes
located at least 15 meters (150 feet) from the facility
property line? (IAW 265.176)

☒ Yes ☐ No

9. Are incompatible wastes stored in the same containers or
placed in an unwashed container that previously contained
an incompatible waste or material? (IAW 265.177)

☐ Yes ☒ No

If yes, explain in narrative.

10. Are containers holding incompatible wastes kept apart by
physical barrier or sufficient distance? (IAW 265.177)

☒ Yes ☐ No

If no, explain in narrative.

Fullstream 7-11-86

Containers
Checklist Narrative

Item

x 7.

The Container storage area is not inspected on a regular basis for signs of leaks or deterioration. The start of accumulation date has not been marked on each container.

FACILITY GulfstreamDATE: 7/11/86TANKS CHECKLIST
(Rule 7.9 & 7.1.6.)Area of
N/C

NOTE: If multiple tanks exist, list each tank and specify compliance or non-compliance. Complete an individual checklist for each tank not in compliance and collective checklist for those in compliance.

1. Are there any tanks which are not being used which the facility no longer plans to use? YES ✓ NO
- a. If yes, has all hazardous waste and hazardous waste residue been removed from these tanks, discharge control equipment, and discharge confinement structures? NA YES NO
2. Are tanks presently used to treat or store waste? ✓ YES NO
- a. If no, do not complete rest of form.
b. If yes, check tanks.
3. Is there evidence that wastes placed in the tank are incompatible with the tank or liner? (IAW 265.192) YES ✓ NO
- NOTE: Any evidence of ruptures, leaks or corrosion. (Use narrative explanations sheet.)
4. Are there any uncovered tanks? (IAW 265.192) YES ✓ NO
- a. If no, do not complete 4b. -e.
b. If yes, do they have 2 feet (60cm) freeboard? NA YES NO
- OR
- c. A containment structure? (e.g. dike or trench) YES NO
- OR
- d. A drainage control system? YES NO
- OR
- e. A diversion structure? (e.g. standby tank) ✓ YES NO
(NOTE: The structure in c, d or e must have a capacity that equals or exceeds the volume of the to 2 feet (60 cm) of the tank.

If the answers to 4b. -e. are "no", explain current conditions using narrative sheets.

Area of
N/C

5. Are any of the tanks continuous feed? (IAW 265.192)

___ YES ☒ NO

a. If yes, is it equipped with a means to stop inflow (e.g. waste feed cutoff or by-pass to a stand-by tank)?

NA YES ___ NO

Waste Analysis

6. Is the tank used to store one waste exclusively?

(Use narrative explanations sheet). Kind of acid wastes

___ YES ☒ NO

HCl, HF, H₂SO₄, Chromic
1. Are waste analyses and trail tests conducted on these wastes

___ YES ☒ NO

OR

Does the owner/operator have written documented information on similar treatment of similar wastes under similar operating conditions? Experience

___ YES ☒ NO

2. Is this information retained in the operating record?

___ YES ☒ NO

Inspections (Note: This section does not exclude underground tanks)

7. Does the owner/operator inspect the following at least daily, where present? (IAW 265.194)

NA YES ___ NO

(Indicate which items are present in 7 and 8.)

a. Discharge control equipment (e.g. waste feed cut-off, by pass and/or drainage systems)?

NA YES ___ NO

b. Monitoring equipment (e.g. pressure and temperature gages)?

NA YES ___ NO

c. Level of waste in each uncovered tank?

NA YES ___ NO

8. Does the owner/operator inspect the following at least weekly? (IAW 265.194)

NOT on any Log or Schedule

___ YES ☒ NO

a. Construction materials of tanks for corrosion or leaks?

☒ YES ___ NO

b. Construction materials of and area surrounding discharge confinement structures for erosion or signs of leakage?

☒ YES ___ NO

9. What is the procedure for assessing the condition of the tank(s)?

Explain in narrative. (e.g. How does the procedure allow for detection of cracks, leaks or corrosion or procedures for emptying the tank to allow entrance, etc.)

Observed for Rust, leaks, Seepage
Visual Observations by maintenance Dept

10. Does the facility have a closure plan? (IAW 265.197)

☒ YES ☒ NO

a. Does the plan address the closure of each tank?
If no, explain in narrative.

☒ YES ☒ NO

b. Is the plan maintained at the facility

☒ YES ☒ NO

11. Are ignitable or reactive wastes placed in tanks?
(IAW 265.198)

☐ YES ☒ NO

a. If yes, are they treated, rendered or mixed before or immediately after placement in the tank so it no longer meets the definition of ignitable or reactive?

☒ YES ☒ NO

OR

b. Is the waste protected from sources of ignition or reaction?

☒ YES ☐ NO

1. If yes, use narrative explanations sheet to describe separation and confinement procedures.

by isolation & segregation

2. If no, use narrative explanations sheet to describe sources of ignition or reaction

OR

c. Is the tank used solely for emergencies?

☐ YES ☒ NO

12. Has the facility ever placed incompatible wastes in the tank? (IAW 265.199)

☐ YES ☒ NO

a. If yes, what were the results. (Use narrative explanations sheet). (Look for signs of mixing of incompatible wastes, e.g. fire, toxic mist, heat generation, bulging containers, etc.

13. If a waste is to be placed in a tank that previously held an incompatible waste, was that tank washed? (IAW 265.199)

☒ YES ☐ NO

a. If Yes, describe washing procedures (Use narrative explanation sheet).

b. Describe how it is possible for incompatible wastes to be placed in the same tank. (Use narrative explanations sheet.)

Tanks

MullStream 7/11/86

Checklist Narrative

Item

6.0 MullStream utilizes one storage tank for mixed acid waste. The tank holds approximately 5,000 gallons. Wastes stored in this tank include HCl, HF, H_2SO_4 and Chromic acid. The wastes are said to be hauled offsite to U.S.P.C.I. every 60-70 days however the date of accumulation date is not recorded.

6.1 Based on experience the operator has determined the wastes in the tank to be compatible. Testing is not necessary.

8.0 The operator stated that the tanks are inspected however no frequency is determined as inspection schedules and logs are not being maintained for the tank.

9.0 The maintenance department personnel are responsible for visually observing the tank for signs of Rust, leaks, seepage etc. The tank appears to be in good condition.

10.a The facilities closure plan dated September 1982 does not address the closure of the tank.

11.b The tank is protected from sources of ignition or reaction by its placement on the property; isolated from such sources.

This Checklist was filled out because the Generator was in violation of the 90 day storage limitation.

FACILITY Culstream
DATE: 7-11-86

OKLAHOMA CONTROLLED INDUSTRIAL WASTE COMPLIANCE

INSPECTION REPORT - FACILITIES CHECKLIST

Area of

N/C Section A - General Facility Standards

1. Does facility have EPA Identification No. and OSDH Site No? YES ☒ NO
(Rule 7.1.6 IAW 40 CFR, 265.11)

A. If yes, OSDH Site No. _____

EPA I.D. NO. OK I 410010821

If no, explain This facility notified as Generator Only - therefore was not given a site number

2. Has facility received hazardous waste from a foreign source? YES ☒ NO
(Rule 7.1.6 IAW 40 CFR 265.12)

A. If yes, has he filed a notice with the Director? NA YES NO

3. Does owner/operator control precipitation, run on and runoff that is or may become contaminated with industrial waste? ☒ YES NO
(Rule 7.2.2)

A. Explain Barren around Storage tank, Containers stored inside building

B. Is a containment structure used? Designed for less than 90 day storage. NA YES NO

1. Is the structure capable of retaining precipitation and runoff generated by 24 hr., hundred year storm plus a minimum of two (2) feet of freeboard. (Rule 7.2.2.2) NA YES NO

4. Is all material handling conducted within dikes, retention walls or other features to control all spills? Explain. NA YES NO
(Rule 7.2.3)

A. Will the system contain the larger of

i. Volume of largest truck or rail cars loaded or unloaded

or

ii. 20% maximum total volume of all trucks and rail cars being loaded or unloaded at one time

plus

Precipitation and runoff generated by the 24Hr/50 year storm

plus

a minimum 12 in. of freeboard

7/11/86

Area of
N/C

5. Are all contained liquids handled as a controlled industrial waste? (Rule 7.2.3.1)

Explain Should a tank container etc leak it is handled as CIL

☒ YES ☐ NO

Waste Analysis

6. Does facility maintain a copy of the waste analysis plan at the facility (Rule 7.1.6, IAW 40 CFR 265.13)

☐ YES ☒ NO

A. If yes, does it include

NA

1. Parameters for which each waste will be analyzed?

☐ YES ☐ NO

2. Test methods used to test for these parameters?

☐ YES ☐ NO

3. Sampling method used to obtain sample?

☐ YES ☐ NO

4. Frequency with which the initial analyses will be reviewed or repeated?
(For facilities receiving waste from off-site)

☐ YES ☐ NO

5. Waste analyses that generators have agreed to supply?
(For facilities receiving waste from off-site)

☐ YES ☐ NO

6. Procedures which are used to inspect and analyze each movement of hazardous waste including:

a. Procedures to be used to determine the identity of each movement of waste?

☐ YES ☐ NO

b. Sampling method to be used to obtain representative sample of the waste to be identified?

☒ YES ☐ NO

7. Does the facility provide adequate security through:
(Rule 7.3.1)

A. Fence around facility? (Rule 7.3.1)

☒ YES ☐ NO

B. Locked entrance? (Rule 7.3.1)

☒ YES ☐ NO

C. Warning sign? (Rule 7.4.1)

☐ YES ☒ NO

General Inspection Requirements

8. A. Does the owner/operator maintain a written schedule for inspecting: (Rule 7.1.6 IAW 265.15 - General Inspection Requirements)

1. Monitoring equipment? (If applicable)

NA ☐ YES ☐ NO

Area of
N/C

2. Safety and emergency equipment?

___ YES ☒ NO

3. Security devices?

___ YES ☒ NO

4. Operating and structural equipment (if applicable)

NA YES ___ NO

5. Does the schedule or plan identify the types of problems to be looked for during inspection?

___ YES ☒ NO

a. Malfunction or deterioration (e.g. inoperative sump pump, leaking fitting, eroding dike, corroded piper or tanks, etc.)

___ YES ☒ NO

b. Operator error

___ YES ☒ NO

c. Discharges (e.g. leaks from valves or pipes joint breaks, etc.)

___ YES ☒ NO

B. Is a written schedule for these inspections maintained at the facility?

___ YES ☒ NO

1. Are these inspections conducted?

___ YES ☒ NO

a. Is a record of these inspections maintained in the inspection log?

___ YES ☒ NO

☒ 9. Does the owner/operator have an inspection log?
(Rule 7.1.6 IAW 265.15 - General Inspection Requirements)

___ YES ☒ NO

A. If yes, does it include:

1. Date and time of inspection?

NA YES ___ NO

2. Name of inspector?

___ YES ___ NO

3. Notation of observations?

___ YES ___ NO

4. Date and nature of repairs or remedial action?

___ YES ___ NO

B. Are there any malfunctions or other deficiencies noted in the inspection log that remain uncorrected? (Use narrative explanation sheet).

___ YES ___ NO

C. Are records of the inspection log maintained at the facility for three (3) years?

☒ YES ___ NO

Personnel Training *Regenerator Only Checklist*

☒ 10. Does the owner/operator maintain Personnel Training Records at the facility? (Rule 7.1.6 IAW 40 CFR 265.16)

___ YES ☒ NO

How long are they kept? _____

A. If yes, do they include: _____

Area of
N/C

- _____ 1. Job title and written job description of each position? NA YES _____ NO
- _____ 2. Description of type and amount of training? YES _____ NO
- _____ 3. Records of training given to facility personnel? YES _____ NO
- _____ 4. Is training reviewed annually? YES _____ NO

Requirements for Ignitable, Reactive or Incompatible Waste

- _____ 11. Does facility handle ignitable or reactive wastes?
(Rule 7.1.6 IAW 40 CFR 265.17) YES _____ NO
- _____ A. If yes, is waste separated and confined from sources of ignition or reaction, (open flames, smoking, cutting and welding, hot surfaces, frictional heat) sparks (static, electrical or mechanical), spontaneous ignition (e.g. from heat producing chemical reactions) and radiant heat? YES _____ NO
- _____ 1. If yes, ~~use narrative explanations sheet to describe separation and confinement procedures.~~
No Smoking Area + Segregated from Ignition Sources
- _____ 2. If no, use narrative explanation sheet to describe sources of ignition or reaction.
- _____ B. Are smoking and open flame confined to specifically designated locations? YES _____ NO
- _____ C. Are "No Smoking" signs posted in hazardous areas? YES _____ NO

- _____ 12. Check Containers
(Rule 7.3 & 7.1.6, IAW 40 CFR 265.17)
- _____ A. Are containers leaking or corroding? _____ YES NO
- _____ B. Is there evidence of heat generation from incompatible wastes? _____ YES NO

Section B - Preparedness and Prevention

1. Is there evidence of fire, explosion or contamination of the environment? (Rule 7.1.6 IAW 40 CFR 265.31) YES _____ NO
- _____ 2. If yes, use narrative explanations sheet to explain. Sec. Generator Only Narrative Section B.1
Is the facility equipped with:
(Rule 7.1.6 IAW 40 CFR 265.32)
- _____ A. Internal communication or alarm system? YES _____ NO
- _____ (1) Is it easily accessible in case of emergency? YES _____ NO

Area of
N/C

_____ B. Telephone or two-way radio to call emergency response personnel? ☒ YES _____ NO

_____ C. Portable fire extinguishers, fire control equipment, spill control equipment and decontamination equipment? ☒ YES _____ NO

_____ (1) Is this equipment tested to assure its proper operation? ☒ YES _____ NO

_____ D. Water of adequate volume for hoses, sprinklers or water spray system? ☒ YES _____ NO

(1) Describe source of water

City Supply

_____ 3. Is there sufficient aisle space to allow unobstructed movement of personnel and equipment? (Rule 7.1.6, IAW 40 CFR 265.35) ☒ YES _____ NO

☒ 4. Has the owner/operator made arrangements with the local authorities to familiarize them with characteristics of the facility? (layout of facility, properties of hazardous waste handled and associated hazards, places where facility personnel would normally be working, entrances to roads inside facility, possible evacuation routes). (Rule 7.1.6 IAW 40 CFR 265.37) Need to provide Contingency Plan has made verbal contact only _____ YES ☒ NO

_____ 5. In the case that more than one police and fire department might respond, is there a designated primary authority? (Rule 7.1.6, IAW 40 CFR 265.37) ☒ YES _____ NO

a. If yes, list primary authority

Fire = Wiley Post Airport
Police = City of Berkeley

_____ 6. Does the owner/operator have phone numbers of, and agreements with, State emergency response teams, emergency response contractors and equipment suppliers? (Rule 7.1.6, IAW 40 CFR 265.37) ☒ YES _____ NO

_____ Are they readily available to emergency coordinator? ☒ YES _____ NO

_____ 7. Has the owner/operator arranged to familiarize local hospitals with the properties of hazardous waste handled and types of injuries that could result from fires, explosions, or releases at the facility? (Rule 7.1.6, IAW 40 CFR 265.37) ☒ YES _____ NO

Section C - Contingency Plan and Emergency Procedures

(See Generator Only Narrative Section C)

_____ 1. Is a contingency plan maintained at the facility? (Rule 7.1.6, IAW 40 CFR 265.51 & 53) ☒ YES _____ NO

_____ A. 1. If yes, is it a revised SPCC Plan? (Rule 7.1.6, IAW 40 CFR 265.52) _____ YES ☒ NO

Area of
N/C

- _____ 2. Actions to be taken in response to emergencies? ☒ YES _____ NO
- _____ 3. Description of arrangements with police, fire and hospital officials? ☒ YES _____ NO
- ☒ 4. List of names, addresses, phone numbers of persons qualified to act as emergency coordinator? _____ YES ☒ NO
- ☒ 5. List of all emergency equipment at the facility? _____ YES ☒ NO
- ☒ 6. Evacuation plan for facility personnel? _____ YES ☒ NO
- _____ 2. Is there a emergency coordinator on site, or within short driving distance, at all times?
(Rule 7.1.6, IAW 40 CFR 265.55) ☒ YES _____ NO

Section D - Manifest System. Recordkeeping and Reporting

- _____ 1. Does facility receive waste from off-site?
(Rule 1.3.1.6) _____ YES ☒ NO
- _____ A. If yes, does the owner/operator retain copies of all manifests?
- _____ (1) Are the manifests signed and dated and returned to generator? ☒ YES _____ NO
- _____ (2) Is a signed copy given to the transporter? ☒ YES _____ NO
- ☒ 2. Does the owner/operator keep a written operating record at the facility? (Rule 7.1.6 IAW 265.73) _____ YES ☒ NO
- _____ A. If yes, does it include:
- _____ (1) Description and quantity of each hazardous waste received? ☒ YES _____ NO
- _____ (2) Location and quantity of each hazardous waste at each location? ☒ YES _____ NO
- _____ (3) Records and results of waste analyses? ☒ YES _____ NO
- _____ (4) Report of incidents involving implementing of the contingency plan? ☒ YES _____ NO
- _____ (5) Records and results of required inspections? ☒ YES _____ NO
- _____ (6) Monitoring, testing or analytical data? ☒ YES _____ NO

Area of
N/C

- ____ (7) Closure cost estimates and for disposal facilities
post closure cost estimates? N/A YES ____ NO ____
- ____ (8) Is location of waste recorded on map or diagram? YES ____ NO ____
- ____ 3. Has the facility received any waste (that does not come under
the small generator exclusion) not accompanied by a manifest? N/A YES ____ NO ____
- ____ A. If yes, has he submitted an unmanifested waste report
to the Director (Rule 7.1.6, IAW 265.76) YES ____ NO ____
- ____ 4. Has the facility received any shipments of controlled
industrial waste which were inconsistent with the manifest?
(Rule 7.1.6 IAW, 265.72) YES ____ NO ____
- ____ A. If yes, has he resolved the discrepancy with generator &
transporter? YES ____ NO ____
- ____ B. If no, has a manifest discrepancy report been filed with
the Director? YES ____ NO ____

Section E. - Plans and Reports

- ____ 1. Have all plans and reports been visually inspected and/or
been made available for inspection? (Rule 7.1.6 IAW 265.74-
availability, retention and disposition of records) ☒ YES ____ NO ____
- ____ A. Does the facility submit monthly reports to the Director?
List discrepancies or errors As Generator submits quarterly reports YES ____ ☒ NO ____
- ____ B. Does the facility submit annual reports that include closure cost
estimates and, where applicable, monitoring data.
List discrepancies or errors Closure cost est. not revised annually YES ____ ☒ NO ____

____ List plans and/or reports not made available for inspection.

Personnel Training Records

- ____ 2. Did operator provide inspector with a drawing of the facility? ☒ YES ____ NO ____
- ____ a. If yes, please indicate which are hazardous waste
facilities on the drawing. Attachment
- ____ 3. Indicate types of hazardous waste facilities.
- ____ ☒ Containers
- ____ ☒ Tanks
- ____ Surface Impoundments

Area of
N/C

- ☐ Waste Piles
- ☐ Land Treatment
- ☐ Landfill
- ☐ Incinerator
- ☐ Thermal Treatment
- ☐ Chemical, Physical and Biological Treatment

Section F - Groundwater Monitoring

1. Are there any ground water monitoring wells?
(Rule 7.1.6, 265.90 Applicability)

YES ☒ NO

- a. Is owner/operator aware that prior to 11/19/81
he must install, operate and maintain a groundwater
monitoring system (unless waived in writing)?

NA
YES ☐ NO

The owner or operator of a surface impoundment, landfill, or land treatment facility which is used to management hazardous waste must implement a ground-water monitoring program. (Rule 7.1.6, IAW 265.90)

1. Specify the site(s) for which a ground water monitoring system (has) or
(should have) been installed: _____

2. What date was the monitoring program initiated
(date of first sampling)? _____

3. Indicate by a map or sketch locations of each monitoring well and distance
from active site(s) (attach). Also list depths diameter and completion
data on each well (or include well drilling and completion report).
Indicate whether the wells are hydraulically upgradient or downgradient
and the direction of flow of the groundwater. (Rule 7.1.6 IAW 265.91)

4. If no ground water monitoring system has been installed, include a copy
of Low Potential Ground Water Demonstration used to document a low
potential for migration of hazardous waste or constituents. Also des-
cribe briefly what basis was used to justify the waiver of monitoring
requirements: (Rule 7.1.6 IAW 265.190 (c))

5. If a ground water monitoring system has been installed, attach a copy of
the ground water sampling and analysis plan. Briefly describe sample
collection technique for obtaining samples and the method used to estab-
lish elevation of ground water for ground water monitoring wells:
(Rule 7.1.6 IAW 265.92)

Gulfstream 7/11/86

Facilities
Checklist Narrative

Item

This Checklist was filled ^{out} because the 90 day storage time limitation was exceeded by the generator. The facility was not listed as a TSD and only notified as a generator.

A6.0 The facility does not utilize a waste analysis plan. This is required for TSD facilities.

A7.C The Warning Signs for TSD facilities are non-existent.

A8.0 The facility does not maintain an inspection schedule and does not perform routine inspections. No inspection logs are utilized or records kept.

A9.0 There are no personnel training records.

A10.0 See generator only narrative. The contingency plan is incomplete and copies have not been revised and provided to local authorities.

B4.0/C As required for TSD facilities Gulfstream does not keep a written operating record at the facility.

D2.0 There is a closure plan but it does not address the tank at all or decontamination steps. Page 3 of the closure plan states that the Southern storage area may have waste stored in excess of 90 days. This should be recorded to not in excess of 90 days. The Closure Plan and Contingency Plan were written for Gulfstream.

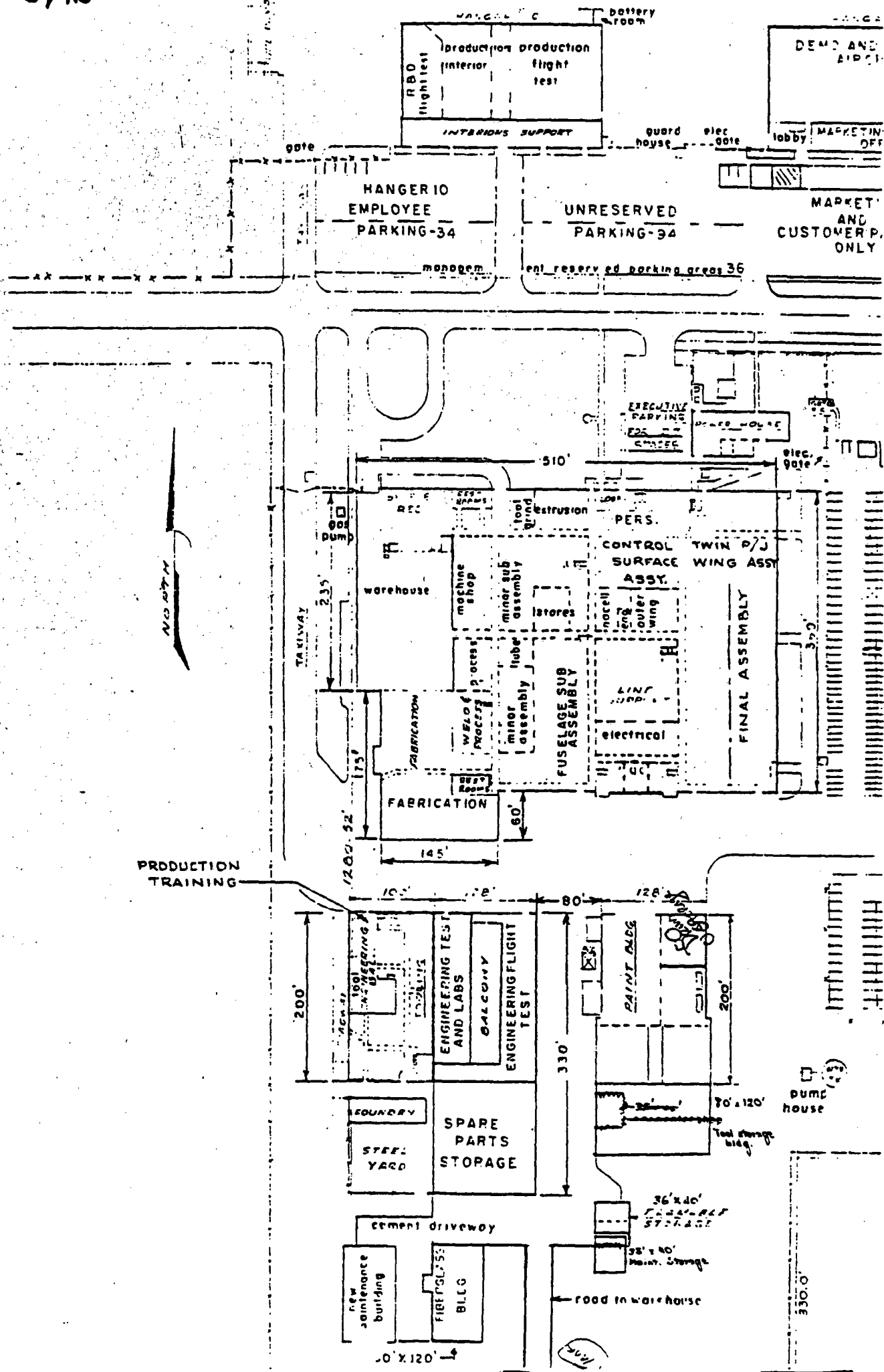
Gulfstream 7/11/81

Facilities Checklist Narrative Cont.

by Stanley/Wynn Engineering in 1982. Both plans are inadequate and have been ignored by facility personnel in that their existence was not known to key personnel and filed away rather than actively updated and followed.

H. Gulfstream has not met the financial requirements of a TSD. There is a closure cost estimate but it does not address tank closure and has not been revised annually.

04-59



Area of
N/C

_____ 3. Is a closure plan maintained at the facility? ✓ YES _____ NO

_____ 4. Is there evidence of any open burning of hazardous waste? (Use narrative explanations sheet) ✓ YES _____ NO

_____ 5. Is open burning or detonation of waste explosives conducted? (IAW 265.382) ✓ YES _____ NO

_____ a. If yes, is the detonation performed in accordance with the following table? YES

Pounds of waste explosives or propellants	Minimum distance from open burning detonation to the property or others
0-100	204m (670 ft)
101-1,000	380m (1,250 ft)
1,001-10,000	530m (1,730 ft)
10,001-30,000	690m (2,260 ft)

Photograph Number 1

Site Name: Air Center Inc.

CERCLIS: OKD980750319

Location: Oklahoma City, OK

TDD Number: F-6-8808-36

Photographer: Ravinder Joseph

Witness: *Tom Rountree*
Tom Rountree

Date: 8-22-88

Time: 0920 hours

Direction: N.W. to S.E.

Comments: Panoramic of Gulfstream Aerospace from off-site. Matches left side of photo # 2.

(This photograph matches negative number 2, 3 and 4)



Photograph Number 2

Site Name: Air Center Inc.

CERCLIS: OKD980750319

Location: Oklahoma City, OK

TDD Number: F-6-8808-36

Photographer: Ravinder Joseph

Witness: *Tom Rountree*
Tom Rountree

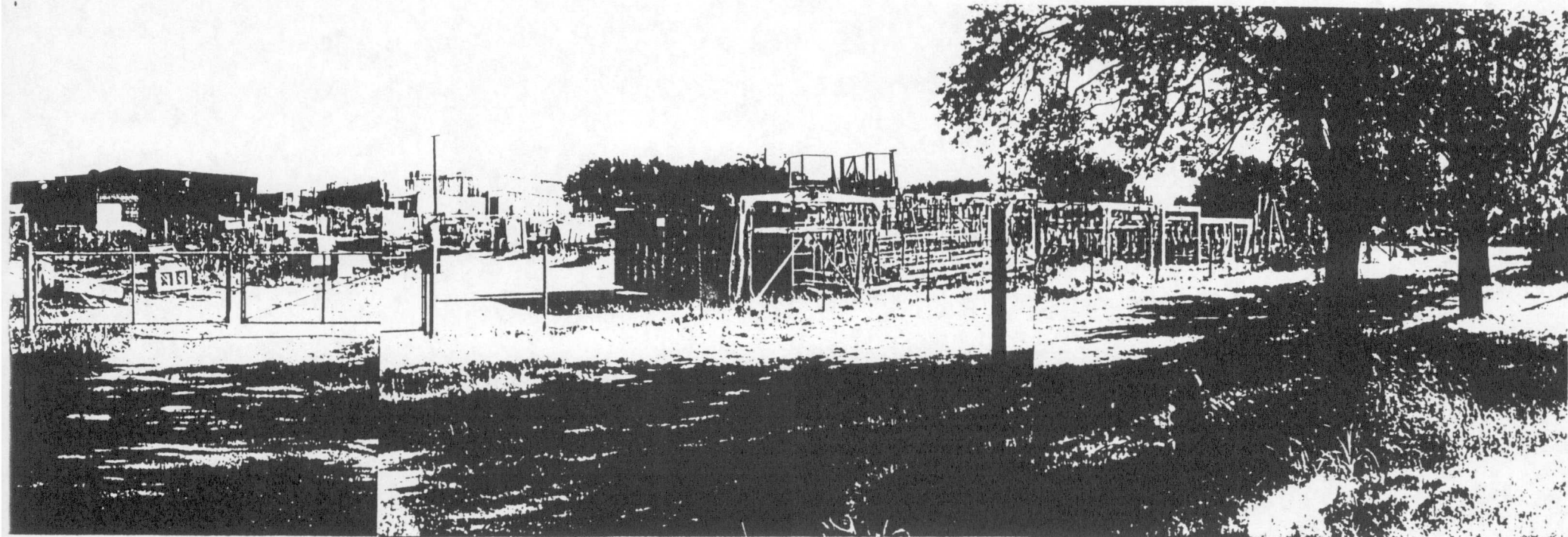
Date: 8-22-88

Time: 0920 hours

Direction: N.W. to S.E.

Comments: Panoramic of Gulfstream Aerospace from off-site. Matches right side of photo # 1.

(This photograph matches negative number 5 and 6)



Photograph Number 3

Site Name: Air Center Inc.

CERCLIS: OKD980750319

Location: Oklahoma City, OK

TDD Number: F-6-8808-36

Photographer: Ravinder Joseph

Witness: *Tom Rountree*
Tom Rountree

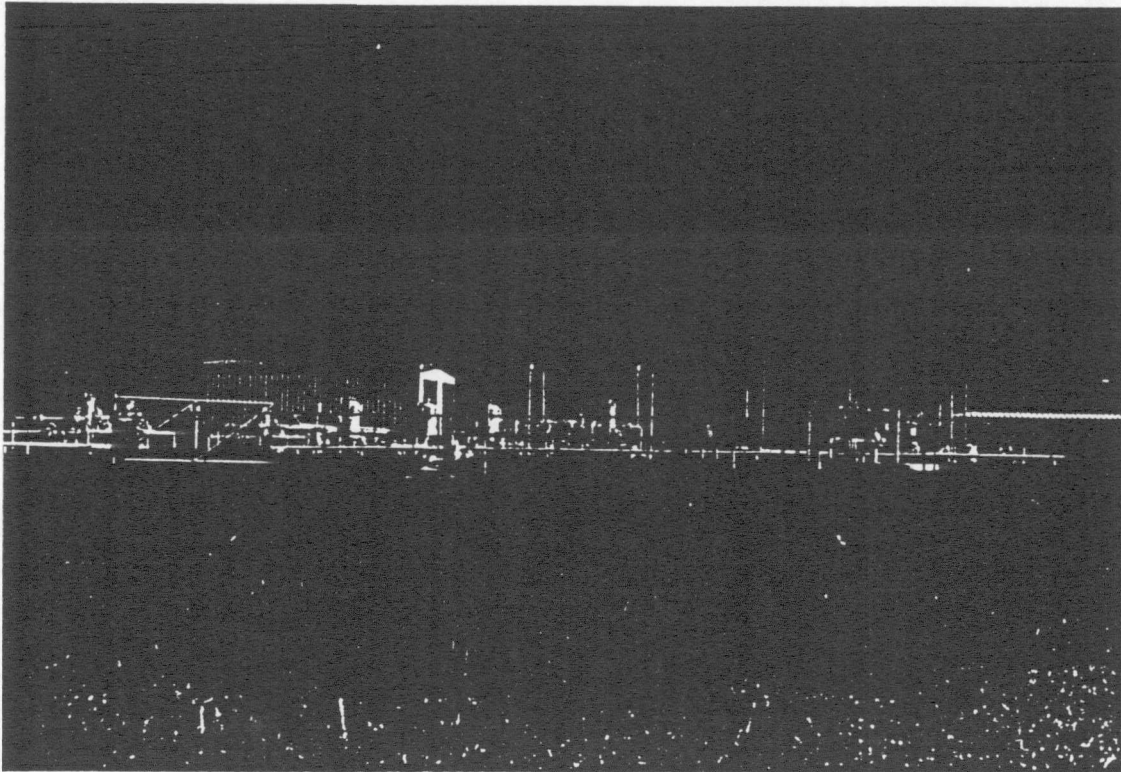
Date: 8-22-88

Time: 0955 hours

Direction: N.W.

Comments: Underground tank farm on Wiley Post Airport Property

(This photograph matches negative number 7)



Photograph Number 4

Site Name: Air Center Inc.

CERCLIS: OKD980750319

Location: Oklahoma City, OK

TDD Number: F-6-8808-36

Photographer: Ravinder Joseph

Witness: *Tom Rountree*
Tom Rountree

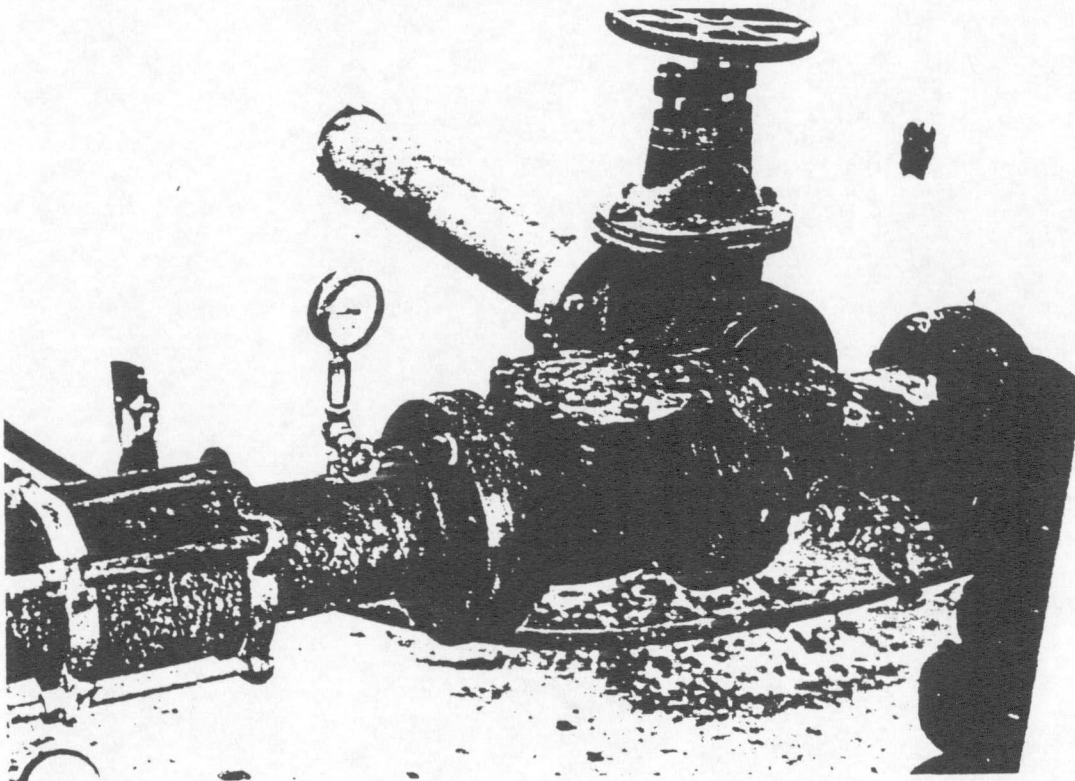
Date: 8-22-88

Time: 1245 hours

Direction: E

Comments: City of Bethany Well # 21

(This photograph matches negative number 8)



Photograph Number 5

Site Name: Air Center Inc.

CERCLIS: OKD980750319

Location: Oklahoma City, OK

TDD Number: F-6-8808-36

Photographer: Ravinder Joseph

Witness: *Tom Rountree*
Tom Rountree

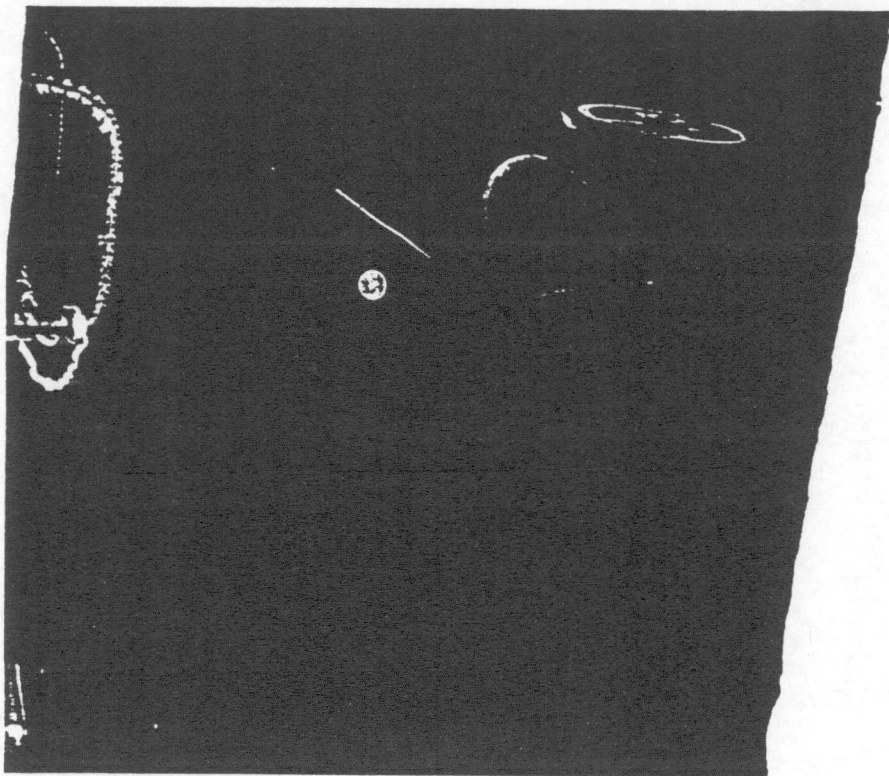
Date: 8-22-88

Time: 1340 hours

Direction: E

Comments: City of Bethany Well # 23

(This photograph matches negative number 9)



Insp. Date July 11, 1986

Disp. Plan No. 55109

Permit No. _____

EPA I.D. NO. OKT41001082

OKLAHOMA CONTROLLED INDUSTRIAL WASTE COMPLIANCE INSPECTION

SITE IDENTIFICATION

A. Site Name Gulfstream Aerospace Corp. B. Street (or other identifier) 5001 N Rockwell

C. City Bethany D. State OK E. Zip Code 73008 F. County Name Oklahoma

G. Site Operator Information Bill Humes Senior V.P. operator

1. Name Owner: Chrysler Corp. S. Telephone Number 405-789-5000
3. Street (Same) 4. City _____ 5. State _____ 6. Zip Code _____

H. Site Description Manufacture Aircraft Parts

J. Type of Ownership
1. Federal _____ 2. State _____ 3. County _____ 4. Municipal _____ 5. Private ☒

K. ☒ 1. Generator _____ 2. Transporter _____ 3. Treatment _____ 4. Storage _____ 5. Disposal _____

INSPECTION INFORMATION

A. Principal Inspector Information
1. Name Lynn Doty 2. Title Environmental Specialist
3. Organization OSDH 4. Telephone No. (area code & No.) 405-271-5338

B. Inspection Participants

Joe Reeves, Material + Process Engr. Gulfstream Aerospace Corp
Barbara Mann, Personnel Coordinator Aerospace Corp
Gayla D. Williams, Records Clerk/dispatcher "

GENERATOR: Helfstrom Corp

DATE: July 11, 1985

OKLAHOMA CONTROLLED INDUSTRIAL WASTE
COMPLIANCE INSPECTION REPORT
GENERATORS CHECKLIST

Note: On multiple part questions circle those not in compliance.

Section A EPA Identification Number.

Area of
N/C

1. Does Generator have EPA ID Number. (Rule 1.2.4 IAW 262.12 - EPA ID Number) and approved Disposal Plan (Rule 3.1)?

☒ Yes ☐ No

a. If yes, EPA ID Number OKT410010821

b. OSDH Disposal Plan Number 55109

☒ Yes ☐ No

Section B - Hazardous Waste Determination - (Rule 3.13 IAW 262.11)

1. Does generator generate hazardous waste(s) listed in Subpart D (Rule 2.1 IAW 261.30 - 261.33 - List of Hazardous Waste)?

☒ Yes ☐ No

2. Does generator generate solid waste(s) that exhibit hazardous characteristics: (Corrosivity, ignitability, reactivity, EP toxicity) (Rule 2.3 IAW 261.20 - 261.24 - Characteristics of Hazardous Waste)?

☒ Yes ☐ No

a. If yes, list wastes and quantities on attachment. (Include EPA Hazardous Waste Number and Oklahoma Waste Code and provide waste name and description)

- b. Does generator determine characteristics by testing or by applying knowledge of processes? Both

(1) If determined by testing, did generator use test methods in Part 261, Subpart C (or equivalent)?

☒ Yes ☐ No

USPCs did testing for generator

(2) If equivalent test methods used, attach copy of equivalent methods used.

3. Are there any other solid wastes deemed non-hazardous by generators? i.e. (process waste streams, collected matter from air pollution control equipment, water treatment sludge, etc.)

☐ Yes ☒ No

a. If yes, did generator determine non-hazardous characteristics by testing or knowledge of process?

(1) If determined by testing, did generator use test methods in Part 261, Subpart C (or equivalent)?

☐ Yes ☒ No 04-46

Area of
N/C

(2) If equivalent test methods are used, attach copy of equivalent methods used.

- b. List wastes and quantities deemed non-hazardous or processes from which non-hazardous wastes were produced. (Use narrative explanations sheet).

Section C - Manifest

1. Does generator ship hazardous waste off-site?
(Subpart B - The Manifest)

☒ Yes ☐ No

- a. If no, do not fill out Section C and D.

- b. If yes, identify primary off-site facility(s). ~~Use narrative explanations sheet.~~ *USPCI Lone Mountain*

2. Has generator shipped hazardous waste off-site since November 19, 1980?

☒ Yes ☐ No

3. Is generator exempted from regulation because of:

Small quantity generator (Rule 2.2 IAW 261.55 -
Special requirements)

☐ Yes ☒ No

or

produces non-hazardous waste at this time
(Rule 2.1 IAW 261.4 - Exclusions)?

☐ Yes ☒ No

4. If not exempted does generator use a manifest?
(Act 1-2010)

☒ Yes ☐ No

- a. If yes, is manifest form approved by OSDH?
(Act 1-2010)

☒ Yes ☐ No

(Check completed manifests at random. Indicate how many manifests were inspected, how many violations were noted and the type of violation).

5. Does all the following information appear on the manifest(s)? (Rule 4.3.1 IAW 262.20)

☒ Yes ☐ No

(Circle deficiencies)

- a. Manifest document number
- b. Generator's name
- c. Generator's EPA ID number
- d. Generator's State ID number (disposal plan number)
- e. Generator's address
- f. Generator's telephone number
- g. Generator's signature
- h. Date that waste was offered for shipment
- i. Transporter's name
- j. Transporter's EPA ID number
- k. Transporter's OK ID number

Gulf Stream 7/11/86

Generators
Checklist Narrative

Item

B.1+B2 The types of wastes and quantities are attached to this checklist as photocopies of the biennial report, disposal plan and facility records. In addition to the attached list of wastes the facility has contaminated soil to dispose of. On May 22, 1986 a spill of hydrofluoric and chromic acid was reported and the removed soil was sampled. The attached lab report shows this contaminated soil to be EP Toxic for Chromium. After soil removal the ground was sampled by compositing soil every fifty feet along the spill area. The ground sample data is also attached and shows an EP Toxic value for lead. It was discovered during sampling that lead contaminated foundry sand had been previously dumped on the ground. The lead contaminated area was colored a dark brown. The facility must initiate a clean-up program for the lead contaminated area. All lead and chromium contaminated soil must be disposed of as a hazardous waste. A memo to the file was written regarding the spill incident.

Gulfstream 7/11/86

Generators
Checklist Narrative Cont

Item

- D. 6+ Most of the Containers in the storage
E. b. 1 area did not have the required labels
identifying hazardous waste. Those containers
which lacked labels also lacked the
beginning date of accumulation time.
- E. a The Facility is in the process of cleaning
out old chemical products and as a result has
accumulated a large amount of waste. USPCI
packed and labelled the extra waste for shipping.
The regular waste was not labelled and all
of the Containers were stored for more than 90 days
while cleanup progressed. The philosophy for exceeding
the 90 day limit was to save money by shipping
all generated waste at one time to cut transport
cost. The date on labelled drums was March 6, 1986.

ENVIRONMENTAL PROTECTION AGENCY

GENERATOR BIENNIAL HAZARDOUS WASTE REPORT FOR 1985

This report is for the calendar year ending December 31, 1985
Read All Instructions Carefully Before Making Any Entries on Form

I. NON-REGULATED STATUS

Complete this section only if you did not generate regulated quantities of hazardous waste at any time during the 1985 calendar year. Circle the one code at right that best describes your status during the entire year (see instructions for explanation of codes).

included 4-8-86

- 1 Non-handler
- 2 Small Quantity Generator
- 4 Exempt
- 5 Beneficial Use
- 9 Out of Business

Please print/type with elite type (12 characters per inch)

II. GENERATOR'S EPA I.D. NUMBER

T/A C
F O K T 4 1 0 0 1 0 8 2 1 1
1 2 13 14 15

This Installation's Non-Regulated Status is Expected to Apply:

☐ For 1985 Only ☐ Permanently☐ Other _____C303 ENTRY (OFFICIAL USE ONLY): ☐

III. NAME OF ESTABLISHMENT

G U L F S T R E A M A E R O S P A C E C O R P O R A T I O N
30 69

IV. ESTABLISHMENT MAILING ADDRESS

3 P O B O X 2 2 5 0 0
15 16 45

Street or P.O. Box

4 O K L A H O M A C I T Y O K L A H O M A 7 3 1 2 3
15 16 41 42 47 51

City or Town

State Zip Code

V. LOCATION OF ESTABLISHMENT (if different than section IV above)

5 7 4 0 0 N W 5 0 t h S T R E E T
15 16 45

Street or Route number

6 O K L A H O M A C I T Y O K L A H O M A 7 3 1 2 3
15 16 41 42 47 51

City or Town

State Zip Code

VI. ESTABLISHMENT CONTACT

2 H U M E S B I L L
15 16 45

Name (last and first)

4 0 5 - 7 8 9 - 5 0 0 0
46 55

Phone No. (area code & no.)

VII. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Bill M. Humes Sr. Vice Pres *Bill M. Humes* *4-8-86*

Print/Type Name

Title

Signature

Date Signed

04-31

Do not make entries in shaded areas

ENVIRONMENTAL PROTECTION AGENCY

Generator Biennial Hazardous Waste Report for 1985 (cont.)

This report is for the calendar year ending December 31, 1985

Date rec'd: _____ Rec'd by: _____

VIII. GENERATOR'S EPA I.D. NO.

0101 K1 T1 41 11 01 01 11 01 81 21 11 11
1 2 13 14 15

X. FACILITY'S EPA I.D. NO.

F101 K1 D1 06 51 41 38 37 6
16 28

IX. FACILITY NAME (specify facility to which all wastes on this page were shipped)

Lone Mountain

XI. FACILITY ADDRESS

RR 2, Box 180A
Waynoka, OK 73860

XII. TRANSPORTATION SERVICES USED

U.S. Pollution Control, Inc.
OKD981046295

XIII. WASTE IDENTIFICATION

Sequence #	Line #	A. Description of Waste	B. DOT Hazard Code	C. EPA Hazardous Waste No. (see instructions)	D. Amount of Waste	E. Unit of Measure
29	1	Mixed acid waste, corrosive liquid, from pickling of steel from cad plating process	0, 2	0, 0, 0, 2 35 38 39 42	5, 5, 0, 0	8.7 lb./ G
	2	Soil contaminated w/oil	1, 5	0, 0, 0, 0 43 46 47 50 51	2, 2, 5, 5	2.0 lb./ G
	3	Zyglo penetrant used for finding cracks in metal	1, 5	0, 0, 0, 0	1, 1, 0	6.5 lb./ G
	4	Zinc chromate paint sludge, by-product of paint booths	1, 5	0, 0, 0, 0	2, 0, 9, 0	10.0 lb./ G
	5	Dried paint waste, by-product of paint booths (sensitizer)	1, 5	0, 0, 0, 0	6, 6, 0	8.7 lb./ G
	6	Styrene, used to make fiber-glass parts	0, 8	0, 0, 0, 1	5, 5	10.4 lb./ G
	7	Oil & water (mainly water)	1, 5	0, 0, 0, 0	1, 6, 5, 0	8.3 lb./ G
	8					
	9					
	10					
	11					
	12					

XIV. COMMENTS (enter information by section number—see instructions)

Generator Biennial Hazardous Waste Report for 1985 (cont.)

This report is for the calendar year ending December 31, 1985

Date rec'd: _____ Rec'd by: _____

VIII. GENERATOR'S EPA I.D. NO.

G	0	K	T	4	1	0	0	1	0	8	2	1	1
1	2									13	14	15	

T/A C

X. FACILITY'S EPA I.D. NO.

F	0	K	D	0	0	0	6	3	2	7	3	7
16											28	

IX. FACILITY NAME (specify facility to which all wastes on this page were shipped)

Hydrocarbon Recylers, Inc.

XI. FACILITY ADDRESS

5354 W. 46th St. South
Tulsa, Okla. 74157

XII. TRANSPORTATION SERVICES USED

U.S. Pollution Control, Inc.
OKD981046295

XIII. WASTE IDENTIFICATION

Sequence #	Line #	A. Description of Waste	B. DOT Hazard code	C. EPA Hazardous Waste No. (see instructions)	D. Amount of Waste	E. Unit of Measure
29	1	Methyl Ethyl Ketone	0, 8	1, 1, 5, 9, 35, 38, 39, 42	2 2 0	6.7 lb./G
	2	Stoddard solvent, used in degreasing	0, 8	D, 0, 0, 1	1 1 0	6.8 lb./G
	3	JP50, jet fuel	0, 8	D, 0, 0, 1	2 7 5	6.7 lb./G
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					

XIV. COMMENTS (enter information by section number—see instructions)

Tear out here

ENVIRONMENTAL PROTECTION AGENCY

Generator Biennial Hazardous Waste Report for 1985 (cont.)

This report is for the calendar year ending December 31, 1985

Date rec'd: _____ Rec'd by: _____

VIII. GENERATOR'S EPA I.D. NO.

T/A C

G 1 0 1 K I T 1 4 1 1 0 1 0 1 1 0 1 8 1 2 1 1 1 1

1 2

13 14 15

X. FACILITY'S EPA I.D. NO.

F 1 0 1 K I D I 0 1 6 1 5 1 4 1 3 1 8 1 3 1 7 1 6

16

28

IX. FACILITY NAME (specify facility to which all wastes on this page were shipped)

Lone Mountain

XI. FACILITY ADDRESS

RR 2, Box 180A

Waynoka, OK 73860

XII. TRANSPORTATION SERVICES USED

U.S. Pollution Control, Inc.

OKD981046295

XIII. WASTE IDENTIFICATION

Sequence #	Line #	A. Description of Waste	B. DOT Hazard Code	C. EPA Hazardous Waste No. (see instructions)	D. Amount of Waste	E. Unit of Measure
29	1	Mixed acid waste, result of pickling of steel from cad plating and anodizing process	0, 2	0, 0, 2	9, 0, 0, 0	8.7 lb./G
32	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					

XIV. COMMENTS (enter information by section number—see instructions)

1985 Generated - Stored on-site less than
90 days as of December 31, 1985

Generator Biennial Hazardous Waste Report for 1985 (cont.)

This report is for the calendar year ending December 31, 1985

Date rec'd: _____ Rec'd by: _____

XV. GENERATOR'S EPA I.D. NO.

T/A/C

G	0	K	T	4	1	0	0	1	0	8	2	1	1
1	2											13	14 15

XVI. WASTE MINIMIZATION (narrative description)

Due to economic conditions, our facility was forced to discontinue the manufacture of aircraft which resulted in less hazardous waste being generated than previous years. This provided us sufficient time to do a detail cleanup and dispose of excessive materials we had accumulated so we could set up a more efficient inventory control. We are presently implementing a complete program to dispose of our chemicals every 90 days. We are also informing the employees of their right to know of what materials they are handling and providing Material Safety Data Sheets upon request. We have made an effort to dispose of hazardous material in 1985 by cleaning up old pits to prevent any contamination.

Tear out here

CONTROLLED INDUSTRIAL WASTE GENERATOR'S LISTING

This is a listing of all Controlled Industrial Wastes reported to the Oklahoma State Department of Health, Industrial Waste Division as being generated and disposed of by the Business/Plant named below, as of the date specified. This is not a permit and does not constitute authorization of any particular disposal practice, method or site.

Disposal Plan Number 55109, amending plan approved September 6, 1985
has been assigned, as of October 21, 19 85, to: EPA ID Number OKT410010821
Business/Plant Name Gulfstream Aerospace Corp. Commander Business Aircraft
Mailing Address 5001 N. Rockwell, Bethany, OK 73008
Plant Address/Location 7400 Northwest 50th, Oklahoma City, OK 73123
Person in Charge of Facility Bill Humes, V.P. Phone No. (405) 789-5000

NO.	STATE WASTE CODE	FEDERAL WASTE CODE	CHARACTERISTIC	DESCRIPTION	USPCI TRANS-PORTER	USPCI RECEIVING FACILITY	REMARKS
1	020111		Corrosive	Acid and sludge	2004	SD47002	
2	020102		Corrosive	Mixed acid wastes	2004	SD47002	
3	020102		Corrosive	Chromic acid	2004	SD47002	
4	654103		Sensitizer	Dried paint waste	2004	SD47002	Contains Zinc Chromate / in Resins + Solvents
5	664116		Toxic	Styrene	2004 @	SD47002	
6	163802		Toxic <i>One Time</i>	PCB's	2005 #	AL00781+	
7	064600		Toxic	Zylo Penetrant	2004	SD47002	
8	104110	U159	Flammable	MEK	2004	RR47001*	
9	104611		Flammable	Stoddard Solvent	2004	RR47001*	
10	103000		Flammable <i>One Time</i>	Jet fuel <i>Bottoms of tank being emptied</i>	2004	RR72001	

Facility Contact:

Prepared by: AAC, LJB

- # Alternate hauler is 2004
- + Alternate disposal site is AR00249
- ## Alternate disposal site is RR83010
- @ Alternate haulers are 1085 and 3055
- * Alternate disposal site RR72001

Have waste oils which are Recycled

*from hydropress 2 x's / yr @ 500-600 gallons each
Taken directly from process units*

Clean up this year will be amounting in increases on disposal costs

CONTROLLED INDUSTRIAL WASTE GENERATOR'S LISTING

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Disposal Plan Number 55109, amending plan approved September 6, 1985

has been assigned, as of October 21, 19 85, to: EPA ID Number OKT410010821

Business/Plant Name Page 2

Mailing Address _____

Plant Address/Location _____

Person in Charge of Facility _____ Phone No. () _____

NO.	STATE WASTE CODE	FEDERAL WASTE CODE	CHARACTERISTIC	DESCRIPTION	TRANS- PORTER	RECEIVING FACILITY	REMARKS
11	093302	<i>One Time Cleanup</i>	Unclassified	Waste oil/water	2004	SD47002	
12	793313	<i>One Time Disposal</i>	Unclassified	Oil contaminated soil	2004	SD47002	

Facility Contact:

Prepared by: AAC, LJB



Description:

Industrial Waste Disposal Report for 1980 & 1981 & 1982

1st Ending

1980

↓ Date	Quantity	Dept. No.	Vendor	P. O. No.	Price	Remarks
1-31-80	None	020	None	None	0	0
2-30-80	6,000 gal.	020	U.S. Pollution Control	21BC239635	* 2,178.06	Selcon 29 Corrosive Solution
3-30-80	None	020	None	None	0	0
4-30-80	None	020	None	None	0	0
5-31-80	None	020	None	None	0	0
				1981		

1st Ending

2-31-81	None	020	Did not send report - waiting for new disposal plan num			
3-30-81	None	020	Did not send report - waiting for new disposal plan number			
4-30-81	4,400 gal.	020	U.S.D.C.	21BC202329	* 1,628.64	caustic waste acids & sludge
	5,000 gal.	"	"	21BC202452	* 1,949.62	caustic chromic acid solution
	5,000 gal.	"	U.S.P.C.	21BC202500	* 1,821.41	chromic acid solution
5-31-81	32 drums	020	U.S.P.C.	21BC202693	* 2,432.00	caustic chromic acid solution
				1982		

1st Ending

3-31-82	None	020	None	None	0	0
4-30-82	13 drums	020	U.S.P.C.	21BC207390	* 1,425.00	chromic Acid solution
	3,000 gal.	"	U.S.P.C.	207471	* 4,331.00	chromic Acid solution
	5,100 gal.	"	U.S.P.C.	"		Dried Paint Waste
5-30-82	15 drums	020	U.S.P.C.	207657	* 1,871.00	Polyester Styrene
	2 drums	"	"	"		zinc chromate sludge
6-30-82	1 drum	020	U.S.P.C.	208042	* 1,506.00	Chemical cleaner
	4 drums	"	"	"		Paint waste
	1 drum	"	"	"		Paint waste

Description:

Industrial Waste Disposal Report for 1983

1st Ending

1983

Date	Quantity	Dept. No.	Vendor	P.O. No.	Price	Remarks
2-28-83	1 drum	020	U.S.P.C.	208042		Chemical sludge
1-1-83	1 drum	020	U.S.P.C.	208042		Chemical sludge
3-1-83	8	020				8
3-0-83	5000 gal.	020	U.S.P.C.	213529	2,148.45	Deoxidizer
3-0-83	2 gal.	020	U.S.P.C.	213815	1,097.00	PCB transformer oil
	45000 gal.	020	"	213788	4,169.86	Mixed acid wastes
3-1-83	1,155 gal.	020	Diaz Refinery	214214	1,050.00	Zinc chromate
	385 gal.	020	"		350.00	Resin & Solvents
				1984		
3-1-84	5,100 gal.	020	U.S.P.C.	214637	1,881.46	Acid & sludge corrosion
3-0-84	8	020				
3-0-84	8	020				
3-1-84	8	020				

Description:

Qtr. Ending

1985

04-27

Date	Quantity	Dept. No.	Vendor	P.O. No.	Price	Remarks
31-85	None	020	-	-	-	-
31-85	(4-24) 5500 gal.	020	U.S.P.C.	217293	*2,852.29	Mixed acid waste
30-85	None	020	-	-	-	-
31-85	(11-11-85) 2255 gal.	020	U.S.P.C. (to Lone Mountain)	216673	*6,796.90	Soil contaminated w/oil
	(11-11-85) 110 gal.	"	"	"	"	Zylo penetrant
	(11-11-85) 1210 gal.	"	"	"	"	zinc chromate paint slu
	(11-11-85) 110 gal.	"	"	"	"	chromic acid, neutralized
	(11-11-85) 55 gal.	"	"	"	"	Styrene
	(12-11-85) 220 gal.	"	U.S.P.C. (to Hypercarbon Reactors)	216709	*5,620.65	MEK
	(12-11-85) 110 gal.	"	"	"	"	Stoddard Solvent
	(12-11-85) 275 gal.	"	"	"	"	Jat fuel (JA50)
	(12-11-85) 1650 gal.	"	" (to Lone Mountain)	"	"	Oil & water
	(12-11-85) 880 gal.	"	"	"	"	Zinc Chromate paint slu
660	(12-11-85) 220 gal.	"	"	"	"	Dried paint waste
Total	Gal. for Year 1985			13,035	* All	same ORLA Waste Code N

98b

82-19

[illegible]

SAMPLE NUMBER 133407
DATE COLLECTED 05/27/86
DATE RECEIVED 05/28/86
DATE COMPLETED 06/18/86
STATION
COLLECTED BY LYNN DOTY

00000

OKLAHOMA STATE DEPARTMENT OF HEALTH
STATE WATER QUALITY LABORATORY
WATER ANALYSIS REPORT

RECEIVED

JUN 20 1986

*Soil removed and placed in
Storage bins*

DWAIN FARLEY, CHIEF
WASTE MANAGEMENT SERVICE
OSDH ROOM 803
OKLAHOMA CITY

Waste Management # 9103

COPY

OK 73152

GENERAL PROJECTS

CONCENTRATION IN SAMPLE

FLUORIDE IN SEDIMENT	28.30 MG/KG	PH (LAB)	11.60 STD U
ARSENIC IN SEDIMENT <	3.00 MG/KG	BARIUM IN SEDIMENT	52.00 MG/KG
CADMIUM IN SEDIMENT	9.71 MG/KG	EP TOX CHROMIUM	26900 UG/L
CHROMIUM IN SEDIMENT	1281.00 MG/KG	LEAD IN SEDIMENT	156.00 MG/KG
P TOX LEAD <	45 UG/L	MERCURY IN SEDIMENT <	0.05 MG/KG
SELENIUM IN SEDIMENT	4.63 MG/KG	SILVER IN SEDIMENT <	0.35 MG/KG

REMARK CODE EXPLANATIONS

< LESS THAN DETECTION LIMIT

SEE REVERSE SIDE FOR WATER QUALITY REPORT SIGNIFICANCE

PROJECT GULFSTREAM AEROSPACE SURFACE
PROGRAM WASTE MGMT SER (GENERAL PROJ)
CITY OKLAHOMA

CITY OKLAHOMA CITY

LEGAL

SEC

T

R

M

REMARKS CHROMIC AND HYDROFLUORIC ACIDS WERE SPILLED ON GROUND AND
REMARKS NEUTRALIZED WITH SLATE LIME

ANALYSTS
REMARKS

No free liquid

011108

00000

OKLAHOMA STATE DEPARTMENT OF HEALTH
STATE WATER QUALITY LABORATORY
WATER ANALYSIS REPORT

RECEIVED

JUN 20 1960

Soil Remaining on Ground
after Clean-up operations

DWAIN FARLEY, CHIEF
WASTE MANAGEMENT SERVICE. Waste Management Service
CSDH ROOM 803
OKLAHOMA CITY OK 73152

GENERAL PROJECTS

CONCENTRATION IN SAMPLE

FLUORIDE IN SEDIMENT	110.00 MG/KG	PH (LAB)	11.10 STD
ARSENIC IN SEDIMENT	11.87 MG/KG	BARIUM IN SEDIMENT	47.75 MG/KG
CADMIUM IN SEDIMENT	9.05 MG/KG	EP TOX CHROMIUM	911 UG/L
CHROMIUM IN SEDIMENT	641.60 MG/KG	LEAD IN SEDIMENT	4850.00 MG/KG
EP TOX LEAD	11970 UG/L	MERCURY IN SEDIMENT	< 0.05 MG/KG
SELENIUM IN SEDIMENT	5.50 MG/KG	SILVER IN SEDIMENT	< 0.35 MG/KG

REMARK	CODE	EXPLANATIONS
--------	------	--------------

< LESS THAN DETECTION LIMIT

SEE REVERSE SIDE FOR WATER QUALITY REPORT SIGNIFICANCE

ORGE	GULFSTREAM AEROSPACE SURFACE	CITY	OKLAHOMA CITY
PROGRAM	WASTE MGMT SER (GENERAL PROJ)		
COUNTY	OKLAHOMA		

LEGAL

23C

COMMENTS: CHROMIC AND HYDROFLUORIC ACIDS WERE SPILLED ON GROUND AND NEUTRALIZED WITH SLAKE LIME. SAMPLE 1

ANALYSTS
COMMENTS

No free liquid



ICF TECHNOLOGY INCORPORATED

TO: David Wineman, Region VI RPO
THRU: K. H. Malone Jr., FTTOM *KHM*
THRU: Tim Hall, AFTTOM *TAH*
FROM: Ravinder Joseph, FTT Environmental Engineer *RJ*
DATE: May 20, 1988
SUBJECT: Sampling Inspection At Air Center, Oklahoma City, OK (OKD 980750319)
TDD # F-6-8711-04
PAN NO: FOK0270SBF

During the week of January 4, 1988, a six member FTT team (Ravinder Joseph, John Jones, Keith Wheeler, Jeff Robinson, Steve Cowan, and Heather Schijf) conducted soil/sediment, subsurface soil and surface water sampling at Air Center, OK. The site is located at 7300 NW (Northwest) 63rd, Wiley Post Airport in Oklahoma City. The site was formerly used as an aircraft stripping and painting facility. Waste generated from the stripping process was allowed to drain into an unlined lagoon where it then entered a drainage ditch and eventually flowed into a residential pond enclosed by the Woodlake residential district. The lagoon was later filled. FTT discovered the presence of two underground storage tanks on-site during a site recon on July 23, 1987. These tanks were used to hold stripped paint sludge. When full, the tanks were pumped dry into a tanker truck and transported to a disposer in Kansas City. The tanks were dry at closure and later pumped dry again by Wiley Post authorities at an undetermined date. Sampling at Air Center was conducted to detect the presence (if any) of heavy metals such as chromium & lead, and organics such as methylene chloride and phenols.

One background surface soil sample at one foot and another background subsurface soil sample at six feet were collected on-site. One off-site background surface soil sample at one foot was also collected.

Off-site sediment/water samples were taken to determine if there is migration of contaminants into Woodlake Pond. Drinking water wells upgradient and downgradient of Air Center were also sampled for possible contamination. The upgradient well is located three miles to the northwest of the site. The other drinking water wells are to the southwest of the site within half a mile and three miles from Air Center.

All surface soil and sediment samples on-site were collected with stainless steel trowels which had been decontaminated with TSP and detergent and rinsed with deionized water. Trowels used at a particular location were not reused again. Subsurface soil samples were taken at a depth of five to six feet. A mobile power drill was used to drill to the required depth. The subsurface samples were collected using a two inch auger and then transferred with a trowel into

the sample bottles. Water samples from the underground storage tank on-site were collected using a two inch stainless steel bailer which had been previously decontaminated with TSP and detergent and then rinsed with deionized water. Surface water samples from the drainage area and pond were collected with a stainless steel beaker which had been decontaminated in the manner stated above. The surface water samples off-site, from Woodlake Pond, were taken using a stainless steel beaker at the end of an extension pole. All drinking water well samples were collected directly into the sample bottle from spigots or from connections close to the well. The wells were purged by allowing them to flow till pH and conductivity measurements stabilized. The results of field measurements of pH and conductivity are presented in Table VI.

Weather during the sampling mission was cold with temperatures around 21°F. It snowed during the days the on-site samples were taken. There was about one foot of snow accumulation on the ground. Subsurface drilling was monitored with an HNu. HNu readings as high as 50 ppm were recorded down the hole. However, since the meter readings were erratic because of weather conditions, no definite conclusions could be drawn from them. Surface water samples and sediment samples along the drainage path were taken after breaking through an ice layer. This had to be done both on-site and off-site at Woodlake Pond.

The breakdown of the sampling is as follows:

Surface Soil/Sediment	On-Site	13	samples	1 Duplicate	
Sub Surface Soil	On-Site	4	samples	1 Duplicate	QA/QC
Surface Water	On-Site	2	samples	1 Duplicate	QA/QC
Soil/Sediment	Off-Site	10	samples	1 Duplicate	QA/QC
Surface Water	Off-Site	1	sample		QA/QC
Drinking Water Wells	Off-Site	5	samples	1 Duplicate	QA/QC
Field Blank		1	sample		

Summary Of Analytical Results

(Refer to Tables I, II, IIA, IV, and V) The analytical results indicate that for many contaminants, especially organics, the concentration values had J Flags next to them. J Flags indicate that the sample concentrations are to be only considered as estimates. In the discussion given below, concentration values for contaminants without J Flags next to them indicate true concentrations.

Organics

Phenol was not detected in the one-foot and six-foot background soil samples on-site. It was, however, detected at concentrations of 46J (ppb) and 62J (ppb) (duplicate) in water from the underground storage tank on-site. These tanks were at one time used to store stripper sludge from aircraft painting operations. Phenol was also detected in soil at the mouth of the drainage ditch (Map Location 20) at concentrations of 2200J (ppb) and 3500J (ppb). Phenol at 10,000J (ppb) was also found at the mouth of the drainage ditch opening into the upper pond (map location 13). Phenol was also detected at 1200J (ppb) off-site in the background soil sample collected at Woodlake Pond. Even though this was found only in the background sample, on the bank of the lake (map location 24), it is possible to account for its presence if the pond had overflowed its banks at some point in time or the lake had been dredged

and the sediment piled up on the banks. However, since these are only estimates (J Flag), there is uncertainty associated with these values.

Samples taken from the underground storage tank indicate xylene at 41J (ppb) and 47J (ppb) and 2 methyl naphthalene at 35J (ppb) and 45J (ppb). Xylene was not found in the on-site background soil samples.

Bis (2-Ethyl hexyl phthalate) at 110 ppb (J Flag) and 220 ppb (J Flag) was found near the concrete drainage pipe on-site (map location 20). This compound was also found in the City of Bethany municipal drinking water well #23 (map location 28) at concentrations of 28 ppb and 9 ppb (duplicate). This well is located three quarters of a mile west of the site. However, since this is a common laboratory contaminant no significance can be attached to these values.

Inorganics

Arsenic was detected (5 ppb) in water found in one of the underground storage tanks. It was detected in the background on-site soil sample in concentrations comparable to those found in soil elsewhere on the site. These are only estimates (J Flag). Arsenic was also detected at 4 ppb in the City of Bethany municipal well #21 located one and a half miles west of the site. However, this is much lower than the primary drinking water standard of 50 ppb.

Chromium was not found in the underground storage tank but was found in the background soil samples at the one foot and six feet levels (9.8J (ppm) and 18.3J (ppm)). However, these are only estimates. It was also detected in water leaving the site through the drainage ditch (28 ppb). It was detected off-site at map locations 1,2,3,4,5,6,7,8, & 9 in concentrations ranging from 12.9 ppm to 41.1 ppm. However, these are again only estimates. Chromium was also found in the off-site background sample at 28 ppm (J Flag) and in the City of Bethany municipal drinking water well #21 at 15 ppb (Primary drinking water standard: 50 ppb).

Lead was detected in the background soil samples on-site at concentrations of 9.9 and 6.9 ppm. It was also found in all the soil samples off-site in ppm levels ranging from 6.5 ppm to 33 ppm. The background off-site soil sample had a concentration of 22 ppm. The concentrations of lead in drinking water wells (City of Bethany well #21 & #23 - 176 ppb and 66 ppb) are significantly higher than the primary drinking water standard of 50 ppb.

The on-site background soil sample contained nickel (11.6 ppm and 27.3 ppm) which was also detected at map locations 18, 14, 20, & 15 in comparable concentrations. It was found in all the sediment samples, including the background soil at concentrations ranging from 12.9 to 39.5 ppm. Nickel was detected at 31 ppb in the underground storage tank.

Zinc was found in the on-site and background soil samples at depths of one foot and 6 feet (22.8 ppm & 35 ppm) and in the off-site sample at Woodlake Pond (55.8 ppm). Zinc was detected in water in the underground storage tank at 18 ppb & 25 ppb and was also in all the soil and water samples on-site. Significantly higher concentrations than background were found at map locations 20, 13, 12 & 11. Zinc was also found in the water at map location

10 (27 ppb) and in all the off-site soil samples. It also was present at a significantly higher concentration in municipal well #23 (338 ppb), and in the background well at a concentration of 43 ppb.

Cyanide was not detected in background samples but was detected in the water in the underground storage tank (12 ppb & 11 ppb) and in soil at map locations 20 (4.7 & 3 ppb), 15 (5 ppb) and 13 (78.2 ppb). These values are considered significant since it was not found in the background on-site soil samples. Cyanide was not detected off-site.

The results of the sampling mission appear to indicate the presence of phenols and cyanides at the mouth of the drainage ditch on-site (map location 20) and further downstream at the on-site pond (map location 13). Phenol and cyanide were not detected in the background soil samples on-site but were present in the underground storage tank. Cyanide was also present at map location 15. Phenol was also found off-site at map location 24. Even though the concentration values associated with phenol are only estimates (J Flags), these estimates are considered to be biased low and as such do indicate the presence of these components at the above location. Both phenols and cyanides are commonly used in solvents, metal cleaning fluids and plating baths. These fluids are commonly used in activities with which Air Center was involved.

FIT recommends that the City of Bethany's water superintendent and the Oklahoma State Department of Health be informed about the presence of lead in the City of Bethany municipal well no. 21 and well no. 23. The concentration of lead in these wells (176 ppb and 66 ppb) are above the primary drinking water standard of 50 ppb.

FIT also recommends RCRA and state UST program be informed of the underground storage tanks on-site.

1750

TRAFFIC REPORT NUMBER AND STATION LOCATION.

R - DATA IS UNUSABLE DUE TO QA/QC OUT OF CONTROL LIMITS.
J - REPORTED CONCENTRATIONS OR DETECTION LIMITS ARE ESTIMATES DUE TO QA/QC OUT OF CONTROL LIMITS.
B - CONCENTRATION IN SAMPLE ATTRIBUTABLE TO BLANK CONTAMINATION.
U - NOT DETECTED; VALUE REPORTED IS THE DETECTION LIMIT.

INORGANIC ANALYSIS SUMMARY FOR SOIL

SITE NAME AND NUMBER: AIR CENTER, INC
CASE NUMBER: 8811 PAGE 2 OF 2
CONCENTRATIONS IN PARTS PER MILLION (PPM)

TRAFFIC REPORT NUMBER AND STATION LOCATION.

		REF 437																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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SITE NAME: OIP CENTER
CASE NUMBER 3811 PAGE 7 OF 9
CONCENTRATIONS IN PARTS PER BILLION

ORGANIC TRAFFIC NUMBERS
AND SAMPLE STATION LOCATION DESCRIPTIONS

IFG 257	IFG 258	IFG 259	IFG 260	IFG 261	IFG 262	IFG 263	IFG 264	IFG 265	IFG 266	IFG 267
SW CORNER OF LAGOON	DRAINAGE DITCH, CONCRETE PIPE	DRAINAGE DITCH	JUST #1	EAST OF SE HANGER	JUST #2	OVERFLOW VALVE, UPPER POND SW SIDE	NORTH OF PAINT STRIP, PING AREA AT 1 FT.	NORTH OF PAINT STRIP, PING AREA AT 6 FT.	TRIP BLANK	INE CORNER OF SITE
MATRIX	ISOIL	ISOIL	ISOIL	WATER	ISOIL	WATER	ISOIL	ISOIL	ISOIL	WATER
CHLOROBENZENE	71-43-2	VDA/11								
1,1,1-TRICHLOROETHANE	71-55-6	VDA/11								13
CHLOROFORM	67-66-3	VDA/11								13
TRANS-1,2-DICHLOROETHENE	156-60-5	VDA/11		2J		2J				
ETHYL BENZENE	100-41-4	VDA/11		6J		7J				
METHYLENE CHLORIDE	75-09-2	VDA/11	8JB	7JB	7JB	3J	11JB	10JB	6JB	4JB
TETRACHLOROETHENE	127-18-4	VDA/11		2J						5J
TOLUENE	108-88-3	VDA/11		13		5J				2J
ACEPHONE	67-64-1	VDA/21	4JB	5JB	5JB	19JB	6JB	11JB	6JB	5JB
2-BUTANONE	78-93-3	VDA/21								2JB
CARBON DIOXIDE	75-15-6	VDA/21			2J					
TOTAL VALENES	1330-20-7	VDA/21			41J		47J			
PHENOL	108-95-2	ABN/11		2700J	3500J	46J		62J		
FLUORANTHENE	206-44-0	ABN/11								
BIS(2-ETHYLHEXYL)PHthalate	117-81-7	ABN/11		150J	220J					
BENZOYL ETHYL PHthalate	85-68-7	ABN/11		110J						
BENZOTRIAZINACENE	54-55-3	ABN/11								
CHRYSENE	218-01-9	ABN/11								
PAKENE	125-00-0	ABN/11								
BENZOIC ACID	65-85-0	ABN/21			14J					
2-METHYLN/PHthalene	51-57-6	ABN/21			35J		42J			
1-METHYL STILBOL	254	VDA/31						6J		
HEXANE	34J	VDA/31								
UNKNOWN	505	VDA/31								
UNKNOWN	572	VDA/31				15J				
UNKNOWN	599	VDA/31			7J	8J				
2-CYCLOHEXENE-1-OL	501	ABN/31				22J			17J	
UNKNOWN	594	ABN/31			28J					
UNKNOWN	512	ABN/31				10J				
UNKNOWN	544	ABN/31								
4-METHYL 4-PHENYLENE-2-DNE	562	ABN/31		200JB	460JB		19J			20J
UNKNOWN	628	ABN/31								
UNKNOWN	611	ABN/31	9100JB	5300JB	3800JB	110J		6900JB	2500JB	2300JB
2-HYDROXY CYCLOHEXANONE	572	ABN/31								
UNKNOWN	704	ABN/31			150J		190J			
UNKNOWN	733	ABN/31								13J
1,2-DIBENZOTHIOL	724	ABN/31								
UNKNOWN	910	ABN/31			18J		16J			
UNKNOWN	1016	ABN/31					11J			
2-HYDROXYBENZOIC ACID	1049	ABN/31								

1. PRIORITY POLLUTANT
2. SPECIFIED HAZARDOUS SUBSTANCE
3. IDENTIFICATION IDENTIFIED

VDA - VOLATILE
ABN - ACID/BASE/NEUTRAL
PES - PESTICIDE

B - THE ANALYTE IS FOUND IN THE LAB BLANK
J - INDICATES AN ESTIMATED VALUE FOR TENTATIVELY IDENTIFIED COMPOUNDS OR COMPOUNDS FOUND BELOW CONTRACT DETECTION LIMIT
P - PRESENT IN SAMPLE, BUT NOT REPORTED BY LAB

C - CONFIRMED BY MASS SPECTRAL DATA

04-74

ORGANIC ANALYSIS SUMMARY

SITE NAME: AIR CENTER
CASE NUMBER 0011 PAGE 8 OF 9
CONCENTRATIONS IN PARTS PER BILLION

ORGANIC TRAFFIC NUMBERS
AND SAMPLE STATION LOCATION DESCRIPTIONS

	IFG 257	IFG 258	IFG 259	IFG 260	IFG 261	IFG 262	IFG 263	IFG 264	IFG 265	IFG 266	IFG 267
	SW CORNER OF	DRAINAGE	DRAINAGE	JUST W	EAST OF SE	JUST W	OVERFLOW	NORTH OF	NORTH OF	TRIF BLANK	NE CORNER OF
	LAGOON	DITCH,	DITCH		HANGER		VALVE,	PAINT STRIP	PAINT STRIP		SITE
		CONCRETE					UPPER POND	PAINT AREA	PAINT AREA		
		PIPE					SW SIDE	AT 1 FT.	AT 6 FT.		
COMPOUND	MATRIX	SOIL	SOIL	SOIL	WATER	SOIL	WATER	SOIL	SOIL	SOIL	WATER
UNKNOWN	CASH/SCAN CLASS 1										
UNKNOWN	1077 ABN/31										
UNKNOWN	1149 ABN/31										
UNKNOWN	1187 ABN/31										
UNKNOWN	1260 ABN/31										
1,2,3,4-TETRAHYDRO-1,6-DI	1279 ABN/31										
UNKNOWN	1333 ABN/31			210J		13J					
UNKNOWN	1499 ABN/31			2400J							
UNKNOWN	1597 ABN/31	180J									
UNKNOWN	1629 ABN/31		300J			7J					
UNKNOWN	1642 ABN/31										
UNKNOWN	1650 ABN/31										
UNKNOWN	1737 ABN/31										
MOLECULAR SULFUR	1750 ABN/31										
UNKNOWN	1752 ABN/31										
ALKANE	1760 ABN/31	190J									
UNKNOWN	1778 ABN/31										
UNKNOWN	1819 ABN/31		170J								
ALKANE	1835 ABN/31	430J									
UNKNOWN	1870 ABN/31										
ALKANE	1880 ABN/31		430J								
UNKNOWN	1889 ABN/31										
ALKANE	1897 ABN/31	310J									
ALKANE	1903 ABN/31	460J									
UNKNOWN	1925 ABN/31										
ALKANE	1947 ABN/31		1000J								
UNKNOWN	1959 ABN/31										
ALKANE	1973 ABN/31	430J									
UNKNOWN	1989 ABN/31										
ALKANE	2032 ABN/31										
ALKANE	2038 ABN/31	460J									
UNKNOWN	2053 ABN/31				160J						
UNKNOWN	2094 ABN/31	350J	1700J								
UNKNOWN	2101 ABN/31										
NONADECANE	2136 ABN/31										
NONADECANE	2137 ABN/31										
ALKANE	2154 ABN/31	300J	1800J								
ALKANE	2193 ABN/31		4000J								
ALKANE	2213 ABN/31	210J									
4,8,12-TRIMETHYL-3,7,11-T	2230 ABN/31							200JB			
ALKANE	2249 ABN/31		3700J				1000J				

1. PRIORITY POLLUTANT

VDA - VOLATILE

B - THE ANALYTE IS FOUND IN THE LAB BLANK

C - CONFIRMED BY MASS SPECTRAL DATA

2. SPECIFIED HAZARDOUS SUBSTANCE

ABN - ACID/BASE/NEUTRAL

J - INDICATES AN ESTIMATED VALUE FOR TENTATIVELY

3. TENTATIVELY IDENTIFIED

PES - PESTICIDE

IDENTIFIED COMPOUNDS OR COMPOUNDS FOUND

BELOW CONTRACT DETECTION LIMIT

P - PRESENT IN SAMPLE, BUT NOT REPORTED BY LAB

ORGANIC ANALYSIS SUMMARY

SITE NAME: AIR CENTER
CASE NUMBER: 8311 PAGE 9 OF 9
CONCENTRATIONS IN PARTS PER BILLION

ORGANIC TRAFFIC NUMBERS
AND SAMPLE STATION LOCATION DESCRIPTIONS

		IFB 257	IFB 258	IFB 259	IFB 260	IFB 261	IFB 262	IFB 263	IFB 264	IFB 265	IFB 266	IFB 267
		INN CORNER OF	DRAINAGE	DRAINAGE	JUST #1	EAST OF SE	JUST #2	OVERFLOW	INORTH OF	INORTH OF	TRIP BLANK	INE CORNER OF
		LAGOON	DITCH, CONCRETE PIPE	DITCH		HANGER		VALVE, UPPER POND SW SIDE	PAINT STRIP PING AREA AT 1 FT.	PAINT STRIP PING AREA AT 6 FT.		SITE
		PAINT	SOIL	SOIL	SOIL	WATER	SOIL	WATER	SOIL	SOIL	SOIL	WATER
		WATER										
PROPANE	CAS#/SCAN CLASS											
ALCANE	2270 ABN/31		370J									
UNKNOWN	2286 ABN/31											
ALCANE	2306 ABN/31			2300J								
ALCANE	2323 ABN/31											
ALCANE	2373 ABN/31			1800J								
ALCANE	2275 ABN/31											
ALCANE	2405 ABN/31		290J					790J				
2,6,10,14-TETRAMETHYLENE	2451 ABN/31			1310J								
UNKNOWN	2544 ABN/31			1100J								
UNKNOWN	2563 ABN/31											
UNKNOWN	2599 ABN/31											
UNKNOWN	2600 ABN/31	2200J	1100J			980J		1100J	350J			
UNKNOWN	2620 ABN/31											
ALCANE	2657 ABN/31			230J								
UNKNOWN	2684 ABN/31											
UNKNOWN	2697 ABN/31											

1. SPECIFIC POLLUTANT
2. SPECIFIED HAZARDOUS SUBSTANCE
3. TENTATIVELY IDENTIFIED

VDA - VOLATILE
ABN - ACID/BASE/NEUTRAL
PES - PESTICIDE

B - THE ANALYTE IS FOUND IN THE LAB BLANK
J - INDICATES AN ESTIMATED VALUE FOR TENTATIVELY
IDENTIFIED COMPOUNDS OR COMPOUNDS FOUND
BELOW CONTRACT DETECTION LIMIT
P - PRESENT IN SAMPLE, BUT NOT REPORTED BY LAB

C - CONFIRMED BY MASS SPECTRAL DATA

04-75

TABLE II

MAP LOCATION #	DESCRIPTION	MAJOR COMPOUNDS DETECTED (ppb) (FOR COMPLETE LIST REFER TO ORGANIC ANALYSIS SUMMARY)								
		<u>Benzene</u>	<u>2 cyclohexene-1-one</u>	<u>4-methyl-4-Pentene-2-One</u>	<u>4,8,12-Trimethyl 3-7 11 Iridetratrienenitrile</u>	<u>Molecular Sulfur</u>	<u>1,2 Benzenediol</u>	<u>Fluoranthene</u>	<u>2 Hydroxy benzoic acid</u>	<u>Benzo Anthracene</u>
24	Soil 1'				430J	340J	830J		1300J	
1a	Water 1'		16J	18J						
2	Soil 1'				490J					
3	Soil 1'					1000J				
4	Soil 1' dup	9J 8J			300J	200J 270J		2200J		570J
5	Soil 1'				590J					
6	Soil 1'	8J								
7	Soil 1'	9J			430J					
8	Soil 1'	11J			680J	460J				
9	Soil 1'					2100J				

TABLE 11

Soil - ppm;

Water - ppb

MAP LOCATION	DESCRIPTION	MAJOR CLASSES OF (FOR COMPLETE LIST REFER TO INORGANIC ANALYSIS SUMMARY)						
		Arsenic	Chromium	Lead	Nickel	Vanadium	Zinc	Cyanide
24	Background soil	7J	28J	22	31.9	29.6J	55.8	---
1	Soil 1'	3.5J	15.3J	33.1	13.9	16J	32	---
①	Water 1'	---	---	4.2	---	10.7	51.7	---
2	Soil 1'	5.10J	16.7J	8.5	14.5	21.1J	27.8	---
3	Soil 1'	9.3J	26.4J	6.8	30.4	32.7J	51.5	---
4	Soil 1'	6.4J	32.3J	7.8	39.5	26.7J	66.3	---
	(dup)	5.3J	41.1J	9.9	39.4	42J	72.5	---
5	Soil 1'	9.4J	20.6J	12.3	20	27.6	32	---
6	Soil 1'	9J	12.9	6.5	12.9	16.4J	26.8	---
7	Soil 1'	11.9J	32.7J	18.3	31.2	34.5J	62.3	---
8	Soil 1'	10.2J	17.8J	13.6	17.6	30.9J	41.4	---
9	Soil 1'	11J	23.4J	25.6	25.6	27.6J	47.2	---

04-77

TABLE III

Soil - ppm;

Water - ppb

MAP LOCATION	DESCRIPTION		MAJOR CLASSES OF (FOR COMPLETE LIST REFER TO INORGANIC ANALYSIS SUMMARY)								Water - ppb
				Arsenic	Cadmium	Chromium	Lead	Nickel	Vanadium	Zinc	Cyanide
23	Background Soil	1'	7J	---	---	9.8J	9.9	11.6	4.2	22.8	---
		6'	16.5J	---	---	18.3J	6.9	27.3	25.7J	35	---
22	Underground (water)		5	---	---	---	---	31	---	18	12
	Storage Tank (water dup)		5	---	---	---	---	---	---	25	11
21	Soil	1'	8.4J	---	---	---	---	---	18.2	24.9	---
17	Soil	1'	9.1J	---	---	---	---	---	20	21	---
		6'	8.1J	---	---	---	---	22.7	23.8	---	
18	Soil	1'	---	---	---	---	---	---	18.5	21.1	---
		6'	---	---	---	---	5.1J	20.8	19	---	
		(dup) 6'	---	---	---	---	22.1	---	---	---	
19	Soil	1'	9.8J	---	---	---	---	---	28.7	28.9	---
		6'	---	---	---	---	---	25.8	---	---	
14	Soil	1'	7.80	---	---	---	7.2J	20.6	22.3	---	
20	Soil	1'	3.4J	---	---	---	---	14.6J	20.3	59.1	4.7
		(dup) 1'	5.4J	---	---	---	17.2J	22.3	---	---	3
16	Soil	1'	10.4J	---	---	---	---	---	20	24.4	---
15	Soil	1'	12J	1.2J	---	---	---	15.3J	22.3	31.9	5
13	Soil	1'	12J	4.4J	---	---	---	---	26.8	75.3	78.2
12	Soil	1'	7.4J	---	---	---	---	---	19.6	33.7	---
11	Soil	1'	8.8J	---	---	---	---	---	16.7	39.5	---
(10)	Water		---	---	---	27	---	---	---	27	---

04-78

MAP LOCATION #

DESCRIPTION

MAJOR COMPOUNDS DETECTED (ppb) (Continued)

					1,2,3,4 Tetrahydro 1,6-Dimethyl -4(1-Methylethyl) Naphthalene	Phenol	2 Hydroxy Cyclo hexane
		Chrysene	Pyrene	Hexane			
24	Soil 1'					1200J	1200
4	Soil 1' (dup)	770J	1700J				
5	Soil 1'			6J			
7					360J		



ecology and environment, inc.

1509 MAIN STREET, DALLAS, TEXAS 75201, TEL. 214-742-6601

International Specialists in the Environment

M E M O R A N D U M

TO: Ed Sierra, Region VI RPO

THRU: K. H. Malone, Jr., FITOM *KHm*

FROM: Melissa Stallings, FIT Environmental Scientist *ms*

DATE: June 19, 1991 **TDD:** F06-8906-23
PAN: FOK0270GAA

SUBJECT: Removal of Investigation Derived Waste (IDW)
at Air Center (Wiley Post Airport)
Oklahoma City, Oklahoma County, OK
(OKD980750319)

On December 4, 1990, the FIT issued a delivery order (copy attached) to FIT subcontractor Environmental Field Services, Inc. of Oklahoma City for the removal and disposal of IDW from Air Center (Wiley Post Airport) in Oklahoma City, Oklahoma. Chemical data shows the IDW was RCRA non-hazardous.

On May 21, 1991, Mr. Wayne Fuller of Wiley Post Airport confirmed to FIT member W. Jared Fuqua that the two 55-gallon drums of IDW were no longer present on the site.

Ecology and Environment, Inc.

DELIVERY ORDER**DISPOSAL OF INVESTIGATION DERIVED WASTE (IDW)**

FIT Contract Number FIT 90-004

Site Name Air Center, Wiley Post AirportAddress Rockwell Ave. and 3rd StreetOklahoma City, OKCERCLIS# OKD980750319Date 12-4-90D.O.# 8906-23-005TDD# F06-8906-23PAN FOK0270GAAContractor: **Environmental Field Services, Inc.**
1813 SE 25th
Oklahoma City, OK 73129IDW Was Generated/Will Be Generated 1/88

Number of 55 Gallon Drums that are:

*Date*1 Decontamination Solution Purged Ground Water1 PPE/Trash Soil Empty**Preliminary Classification of IDW**☒ RCRA Non-HazardousDisposal Strategy Schedule pick-up, notify E&E of pick-up date. E&E will contact
site owner for site entry permission. Map attached.☐ RCRA Hazardous☐ TCLP *specify*☐ Reactive *specify*☐ Corrosive *specify*☐ Ignitable *specify*☐ Listed, F,K,P,U waste *specify*☐ Dioxin *specify*☐ TSCA Waste *specify*☐ LLRW *specify*☐ Mixed Waste *specify*

Disposal Strategy

Melissa Stallings*Regional Project Manager*12-3-90*Date*

Distribution:

Sheet 1 White - EFS
Sheet 2 Canary - Region VI FIT
Sheet 3 Pink - E & E Accounting
Sheet 4 Goldenrod - EPA RPO

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